

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2005, 12:28:47 ; Search time 162 Seconds
(without alignments)
19.099 Million cell updates/sec

Title: US-09-424-080b-1

Perfect score: 42

Sequence: 1 LTKKXSP 8

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	11	2 AAR47561	AAR47561 Interfero
2	42	100.0	11	5 ABG68834	ABG68834 Interfero
3	42	100.0	12	5 ABG68850	ABG68850 Interfero
4	42	100.0	17	5 ABG68867	ABG68867 DNA encod
5	42	100.0	18	2 AAR47562	AAR47562 Interfero
6	42	100.0	18	5 ABG68835	ABG68835 Interfero
7	42	100.0	46	5 AAM50696	AAM50696 Human mat
8	42	100.0	46	5 AAM50700	AAM50700 Human mat
9	42	100.0	46	5 AAM50701	AAM50701 Human mat
10	42	100.0	46	5 AAM50704	AAM50704 Human mat
11	42	100.0	90	3 AAY55987	AAY55987 Partial h
12	42	100.0	132	6 ABUS2320	ABUS2320 Human GPC
13	42	100.0	132	8 ADL23975	ADL23975 Human NOV
14	42	100.0	133	1 AAP20109	AAP20109 Sequence
15	42	100.0	150	2 AAR11799	AAR11799 Interfero
16	42	100.0	150	5 ABG68840	ABG68840 Interfero
17	42	100.0	150	5 ABG68842	ABG68842 Interfero
18	42	100.0	150	5 ABG68841	ABG68841 Interfero
19	42	100.0	151	6 ABUS2319	ABUS2319 Human GPC
20	42	100.0	151	8 ADL23973	ADL23973 Human NOV
21	42	100.0	159	8 ADO32410	ADO32410 Human IFN
22	42	100.0	160	8 ADO32408	ADO32408 Human IFN
23	42	100.0	162	1 AAP50168	AAP50168 Sequence
24	42	100.0	162	5 ABG68845	ABG68845 Interfero
25	42	100.0	164	8 ADO32425	ADO32425 Human IFN

26	42	100.0	164	8 ADO32409	ADO32409 Human IFN
27	42	100.0	165	1 AAP30687	AAP30687 Thrl4, Me
28	42	100.0	165	2 AAW43390	AAW43390 Human int
29	42	100.0	165	2 AAW43382	AAW43382 Human int
30	42	100.0	165	2 AAW43386	AAW43386 Human int
31	42	100.0	165	2 AAW43387	AAW43387 Human int
32	42	100.0	165	2 AAY43492	AAY43492 A human 1
33	42	100.0	165	3 AAY82887	AAY82887 N-termi
34	42	100.0	165	3 AAY44976	AAY44976 Human hyb
35	42	100.0	165	3 AAY44828	AAY44828 Hybrid in
36	42	100.0	165	5 ABG68843	ABG68843 Interfero
37	42	100.0	165	5 ABG68844	ABG68844 Interfero
38	42	100.0	165	7 ABG68824	ABG68824 Human alb
39	42	100.0	165	7 ADP16244	ADP16244 Human alb
40	42	100.0	165	7 ADP16239	ADP16239 Human alb
41	42	100.0	165	7 ADP16234	ADP16234 Human alb
42	42	100.0	165	7 ADH21670	ADH21670 Human IFN
43	42	100.0	165	7 ADH21675	ADH21675 Human IFN
44	42	100.0	165	7 ADH21660	ADH21660 Human IFN
45	42	100.0	165	7 ADH21680	ADH21680 Human IFN

ALIGNMENTS

RESULT 1
ID AAR47561 standard; peptide; 11 AA.
XX
AC AAR47561;
XX
DT 25-MAR-2003 (revised)
DT 12-JUL-1994 (first entry)
DE Interferon-receptor binding peptide #4.
XX
XX IFN; cell surface receptor; pharmaceutical carrier molecule;
XX KW drug delivery; neoplastic tissue; infection;
XX KW Type 1 human interferon receptor complex.
XX
OS Synthetic.
XX
XX MO9401457-AI.
XX
PD 20-JAN-1994.
XX
XX PF 06-JUL-1993; 93MO-CA000279.
XX
XX 07-JUL-1992; 92US-00909739.
XX PR 20-NOV-1992; 92US-00980525.
XX
XX (FISH/) FISH E N.
XX
XX Fish EN;
XX
XX WPI; 1994-034987/04.
XX
XX New interferon receptor-binding peptide(s) - useful for delivering a
XX PT pharmaceutically active drug to cells, e.g. neoplastic, infected or
XX PS inflamed tissue cells.
XX
XX Claim 4; Page 35; 51pp; English.
XX
XX The critical clusters of amino acids in the different IFN- α and IFN- β
XX CC beta that interact with the Type 1 IFN receptor complex were defined.
XX CC These critical peptide domains were used to design synthetic peptides
XX CC AAR47558-R47564 that are useful as carriers for pharmaceutical
XX CC compositions. (Updated on 25-MAR-2003 to correct PN field.)
XX
XX Sequence 11 AA;
SQ
Query Match 100.0%; Score 42; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
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|
|
2 LTKKXSP 9

Db 2 LTKKXSP 9

RESULT 2
ABG68834
ID ABG68834 standard; peptide; 11 AA.

AC ABG68834;
XX

DE 07-OCT-2002 (first entry)

Interferon receptor binding peptide #4.

Cytostatic; virucide; hepatotropic; antiinflammatory; neuroprotective; immunosuppressive; antiarthritic; cytokine receptor; interferon; IFN; cancer; hematological malignancy; viral infection; hepatitis; human; multiple sclerosis; autoimmune disease; arthritis.

KW
XX
OS Homo sapiens.
XX
PN WO200244197-A2.
XX
PD 06-JUN-2002.
XX
PF 30-NOV-2001; 2001WO-CA001701.
XX
PR 01-DEC-2000; 2000US-00727388.
XX
PA (FISH/) FISH E. N.
XX
PI Fish EN;
XX
DR WPI; 2002-547689/58.

PT Cytokine receptor binding peptide construct, in particular interferon
PT receptor binding peptide construct for use as an interferon mimetic,
PT comprises a cytokine receptor binding domain incorporated in a molecular
PT scaffold.

XX
PS Claim 16; Page 62; 105pp; English.

CC This invention relates to a novel cytokine receptor binding peptide
CC construct comprising a cytokine receptor binding domain incorporated in a
CC suitable molecular scaffold so that the scaffold maintains the binding
CC domain in a configuration suitable for binding to the cytokine receptor.
CC The peptides of the invention may have cytosolic, virucide,
CC hepatotropic, antiinflammatory, neuroprotective, immunosuppressive and
CC antiarthritic activities. A new interferon receptor binding peptide
CC construct is useful in the manufacture of a medicament as an interferon
CC (IFN) mimetic. A peptide that mimics the effect of IFN is useful in
CC medical therapies for cancer, hematological malignancies, viral
CC infections (hepatitis B or C), multiple sclerosis and autoimmune diseases
CC such as arthritis, to detect modulators of IFN action, in screening
CC assays to compare the activity and/or interaction with another molecule
CC or potential IFN modulator and also in the diagnosis of IFN activity
CC related disorders. A nucleic acid encoding the peptide of the invention
CC or is useful for the treatment and therapy of the mentioned medical
CC conditions. The peptide of the invention has less side effect than those
CC of native cytokines. The present sequence represents an interferon
CC receptor binding peptide of the invention

XX
SQ Sequence 11 AA;

Query Match 100.0%; Score 42; DB 5; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
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|
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|
|
|
|
|
2 LTKKXSP 9

Db 2 LTKKXSP 9

RESULT 3
ABG68850
ID ABG68850 standard; peptide; 12 AA.

AC ABG68850;
XX

DE 07-OCT-2002 (first entry)

Interferon receptor binding peptide #9.

Cytostatic; virucide; hepatotropic; antiinflammatory; neuroprotective; immunosuppressive; antiarthritic; cytokine receptor; interferon; IFN; cancer; hematological malignancy; viral infection; hepatitis; human; multiple sclerosis; autoimmune disease; arthritis.

KW
XX
OS Homo sapiens.
XX
PN WO200244197-A2.
XX
PD 06-JUN-2002.
XX
PF 30-NOV-2001; 2001WO-CA001701.
XX
PR 01-DEC-2000; 2000US-00727388.
XX
PA (FISH/) FISH E. N.
XX
PI Fish EN;
XX
DR WPI; 2002-547689/58.

PT Cytokine receptor binding peptide construct, in particular interferon
PT receptor binding peptide construct for use as an interferon mimetic,
PT comprises a cytokine receptor binding domain incorporated in a molecular
PT scaffold.

XX
PS Claim 16; Page 62; 105pp; English.

CC This invention relates to a novel cytokine receptor binding peptide
CC construct comprising a cytokine receptor binding domain incorporated in a
CC suitable molecular scaffold so that the scaffold maintains the binding
CC domain in a configuration suitable for binding to the cytokine receptor.
CC The peptides of the invention may have cytosolic, virucide,
CC hepatotropic, antiinflammatory, neuroprotective, immunosuppressive and
CC antiarthritic activities. A new interferon receptor binding peptide
CC construct is useful in the manufacture of a medicament as an interferon
CC (IFN) mimetic. A peptide that mimics the effect of IFN is useful in
CC medical therapies for cancer, hematological malignancies, viral
CC infections (hepatitis B or C), multiple sclerosis and autoimmune diseases
CC such as arthritis, to detect modulators of IFN action, in screening
CC assays to compare the activity and/or interaction with another molecule
CC or potential IFN modulator and also in the diagnosis of IFN activity
CC related disorders. A nucleic acid encoding the peptide of the invention
CC or is useful for the treatment and therapy of the mentioned medical
CC conditions. The peptide of the invention has less side effect than those
CC of native cytokines. The present sequence represents an interferon
CC receptor binding peptide of the invention

XX
SQ Sequence 12 AA;

Query Match 100.0%; Score 42; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
|
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|
|
|
|
3 LTKKXSP 10

RESULT 4

ABG68867
ID ABG68867 standard; peptide; 17 AA.
XX
AC ABG68867;
XX
DT 07-OCT-2002 (first entry)
XX
DE DNA encoding IFN-con IRRP3 peptide #2.
XX
KM Cytostatic; vitruicide; hepatotropic; antiinflammatory; neuroprotective;
KM immunosuppressive; antiarthritic; cytokine receptor; interferon; IFN;
KM cancer; haematological malignancy; viral infection; hepatitis; human;
KM multiple sclerosis; autoimmune disease; arthritis.
XX
OS Synthetic.
XX
PN WO200244197-A2.
XX
PD 06-JUN-2002.
XX
PF 30-NOV-2001; 2001WO-CA001701.
XX
PR 01-DEC-2000; 2000US-00727388.
XX
PA (FISH/) FISH E N.
XX
PI Fish EN;
XX
DR WPI; 2002-547689/58.
XX
DR N-PSDB; ABK97830.
XX
PT Cytokine receptor binding peptide construct, in particular interferon
PT receptor binding peptide construct for use as an interferon mimetic,
PT comprises a cytokine receptor binding domain incorporated in a molecular
PT scaffold.
XX
PS Example 8; Page 52; 105pp; English.
XX
CC This invention relates to a novel cytokine receptor binding peptide
CC construct comprising a cytokine receptor binding domain incorporated in a
CC suitable molecular scaffold so that the scaffold maintains the binding
CC domain in a configuration suitable for binding to the cytokine receptor.
CC The peptides of the invention may have cyostatic, vitruicide,
CC hepatotropic, antiinflammatory, neuroprotective, immunosuppressive and
CC antiarthritic activities. A new interferon receptor binding peptide
CC construct is useful in the manufacture of a medicament as an interferon
CC (IFN) mimetic. A peptide that mimics the effect of IFN is useful in
CC medical therapies for cancer, haematological malignancies, viral
CC infections (hepatitis B or C), multiple sclerosis and autoimmune diseases
CC such as arthritis, to detect modulators of IFN action, in screening
CC assays to compare the activity and/or interaction with another molecule
CC or potential IFN modulator and also in the diagnosis of IFN activity
CC related disorders. A nucleic acid encoding the peptide of the invention
CC or is useful for the treatment and therapy of the mentioned medical
CC conditions. The peptide of the invention has less side effect than those
CC of native cytokines. The present sequence represents an interferon
CC receptor binding peptide of the invention
XX
SQ Sequence 17 AA;
XX
Query Match 100.0%; Score 42; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 LTRKXTSP 8
10 LTRKXTSP 17
DB 10 LTRKXTSP 17
XX
RESULT 5
AAR47562
ID AAR47562 standard; peptide; 18 AA.
XX

AC AAR47562;
XX
XX 25-MAR-2003 (revised)
DT 12-JUL-1994 (first entry)
XX
XX 12-JUL-1994 (first entry)
DE Interferon-receptor binding peptide #5.
XX
KM IFN; cell surface receptor; pharmaceutical carrier molecule;
KM drug delivery; neoplastic tissue; infection;
KM Type 1 human interferon receptor complex.
XX
OS Synthetic.
XX
PN WO9401457-A1.
XX
PD 20-JAN-1994.
XX
PF 06-JUL-1993; 93WO-CA000279.
XX
XX 07-JUL-1992; 92US-00909739.
PR 20-NOV-1992; 92US-00980525.
XX
XX (FISH/) FISH E N.
XX
PA Fish EN;
XX
PI Fish EN;
XX
DR WPI; 1994-034987/04.
XX
XX New interferon receptor-binding peptide(s) - useful for delivering a
PT pharmaceutically active drug to cells, e.g. neoplastic, infected or
PT inflamed tissue cells.
XX
PS Claim 5; Page 35; 51pp; English.
XX
CC The critical clusters of amino acids in the different IFN- α and IFN-
CC beta that interact with the Type 1 IFN receptor complex were defined.
CC These critical peptide domains were used to design synthetic peptides
CC AAR47562-R47564 that are useful as carriers for pharmaceutical
CC compositions. (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 18 AA;
XX
Query Match 100.0%; Score 42; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 LTRKXTSP 8
9 LTRKXTSP 16
DB 9 LTRKXTSP 16
XX
RESULT 6
ABG68835
ID ABG68835 standard; peptide; 18 AA.
XX
XX ABG68835;
AC
XX
DT 07-OCT-2002 (first entry)
XX
DE Interferon receptor binding peptide #5.
XX
KM Cytostatic; vitruicide; hepatotropic; antiinflammatory; neuroprotective;
KM immunosuppressive; antiarthritic; cytokine receptor; interferon; IFN;
KM cancer; haematological malignancy; viral infection; hepatitis; human;
KM multiple sclerosis; autoimmune disease; arthritis.
XX
OS Homo sapiens.
XX
PN WO200244197-A2.
XX
PD 06-JUN-2002.
XX
PF 30-NOV-2001; 2001WO-CA001701.
XX

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PR 14-MAR-1996; 96US-00616023.
PR 17-MAR-1997; 97US-00819238.
PA (IMMU-) IMMUNE RESPONSE CORP.
PI Chlou HC, Carlo DJ;
XX
XX WPI, 2002-105276/14.
XX
XX Targeted delivery of nucleic acids encoding interferons to the liver for
PT the treatment of hepatitis infections.
PT
XX Disclosure; Col; 28pp; English.
XX
XX The present sequence corresponds to amino acids 120-165 of human mature
CC interferon-alpha2b (IFN-alpha2b, see AAM50693), but with the residue
CC corresponding to Lys-131 of the wild-type sequence replaced by Thr, which
CC is the residue found in the corresponding position of IFN-alpha1. The
CC mutation was introduced into IFN-alpha2b DNA by site-directed
CC mutagenesis. The vitucide activity of the full-length mutant protein
CC expressed in mouse cells (taking the activity of the wild-type protein as
CC 1) was 0.1. The invention provides a method for the targeted delivery of
CC nucleic acids encoding interferons, especially human IFN-alpha2b, to the
CC liver for the treatment of hepatitis infections. A hybrid IFN-alpha2b
CC protein (see AAM50705) has been produced that shows 400 times the
CC activity of the wild-type protein. Note: The present sequence is not
CC shown in the specification but is derived from the human IFN-alpha2b wild
CC -type sequence given in figure 11A (see AAM50693) and the information for
CC amino acid substitutions given in Fig 11B
CC
SO Sequence 46 AA;

Query Match 100.0%; Score 42; DB 5; Length 46;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTERKRYSP 8
   |||||
Db 11 LTERKRYSP 18

RESULT 8
AAM50700
ID AAM50700 standard; protein; 46 AA.
XX
XX AAM50700;
XX
XX 15-APR-2002 (first entry)
XX
DE Human mature interferon-alpha2b (aa120-165) Q124R, K131T mutant.
XX
XX Interferon-alpha2b; IFN-alpha; human; virucide; antiviral; hepatic;
XX hepatitis; infection; liver; gene therapy; mutant; mutain.
XX
XX Homo sapiens.
XX OS
XX Synthetic.
XX
XX Key Location/Qualifiers
FH Misc-difference 5 /note= "Gln in wild-type sequence"
FT
FT Misc-difference 12 /note= "Lys in wild-type sequence"
FT
FT
XX
XX US6331525-B1.
XX
XX 18-DEC-2001.
XX
XX 23-AUG-1999; 99US-00379434.
XX
XX
XX 14-MAR-1996; 96US-00616023.
XX 17-MAR-1997; 97US-00819238.
XX
XX (IMMU-) IMMUNE RESPONSE CORP.

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DR WPI; 2002-105276/14.
XX Targeted delivery of nucleic acids encoding interferons to the liver for
PT the treatment of hepatitis infections.
XX
PS Disclosure; Col; 28pp; English.
XX
CC The present sequence corresponds to amino acids 120-165 of human mature
CC interferon-alpha2b (IFN-alpha2b, see AAM50693), but with the residue
CC corresponding to Gln-124 of the wild-type sequence replaced by His, and
CC wild-type residue Lys-131 replaced by Thr. The mutations were introduced
CC into IFN-alpha2b DNA by site-directed mutagenesis. The virucide activity
CC of the full-length mutant protein expressed in mouse cells (taking the
CC activity of the wild-type protein as 1) was 4. The invention provides a
CC method for the targeted delivery of nucleic acids encoding interferons,
CC especially human IFN-alpha2b, to the liver for the treatment of hepatitis
CC infections. A hybrid IFN-alpha2b protein (see AAM50705) has been produced
CC that shows 400 times the activity of the wild-type protein. Note: The
CC present sequence is not shown in the specification but is derived from
CC the human IFN-alpha2b wild-type sequence given in Figure 11A (see
CC AAM50693) and the information for amino acid substitutions given in Fig
CC 11B
XX
SQ Sequence 46 AA;
XX
Query Match 100.0%; Score 42; DB 5; Length 46;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LTKKYS P 8
Db 11 LTKKYS P 18
XX
RESULT 11
ID AAY55987 standard; protein; 90 AA.
XX
AC AAY55987;
XX
DT 15-MAR-2000 (first entry)
XX
DE Partial human interferon-alphas protein.
XX
DE Antiviral; anticancer; antiproliferative; human; interferon-alphas;
KM hepatic disease; hepatitis C; viral cirrhosis; hepatocellular carcinoma;
KM liver; gene expression.
XX
OS Homo sapiens.
XX
PN WO958143-A1.
XX
PD 18-NOV-1999.
XX
PF 13-MAY-1999; 99WO-ES000134.
XX
PR 13-MAY-1998; 98ES-00001003.
XX
PA (CIEN-) INST CIENTIFICO & TECNOLÓGICO NAVARRA.
XX
PI Prieto Valtuena J, Civeira Murillo MP, Larrea Leoz E;
XX
XX WPI; 2000-038959/03.
DR N-PSDB; AAZ47031.
XX
XX Treating liver diseases with interferon-alphas or nucleic acid encoding
PT it, particularly chronic hepatitis C.
XX
PS Disclosure; Page 30; 36pp; Spanish.
XX
CC This sequence corresponds to a fragment of the human interferon-alphas
CC protein (Genbank Accession No: X02956). The invention relates to a method
CC of using interferon-alphas or its coding sequence to prepare compositions

CC for treatment of hepatic diseases, e.g. (i) chronic hepatitis C; (ii)
CC cirrhosis of viral origin and (iii) hepatocellular carcinoma. The method
CC restores the level of interferon-alphas, which is reduced in diseased
CC liver cells, to normal levels
XX
SQ Sequence 90 AA;
XX
Query Match 100.0%; Score 42; DB 3; Length 90;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LTKKYS P 8
Db 74 LTKKYS P 81
XX
RESULT 12
ID ABUS2320 standard; protein; 132 AA.
XX
AC ABUS2320;
XX
DT 03-MAR-2003 (first entry)
XX
DE Human GPCR related protein NOV4b.
XX
DE Human; NOVX; G-protein coupled receptor; GPCR; cancer; cytostatic.
XX
OS Homo sapiens.
XX
PN WO200279398-A2.
XX
PD 10-OCT-2002.
XX
PF 08-MAR-2002; 2002WO-US007355.
XX
PR 08-MAR-2001; 2001US-0274184P.
PR 08-MAR-2001; 2001US-0274281P.
PR 08-MAR-2001; 2001US-0274322P.
PR 09-MAR-2001; 2001US-0274849P.
PR 13-MAR-2001; 2001US-0275578P.
PR 13-MAR-2001; 2001US-0275579P.
PR 13-MAR-2001; 2001US-0275601P.
PR 14-MAR-2001; 2001US-0276000P.
PR 16-MAR-2001; 2001US-0276776P.
PR 19-MAR-2001; 2001US-0276994P.
PR 20-MAR-2001; 2001US-0277239P.
PR 20-MAR-2001; 2001US-0277327P.
PR 20-MAR-2001; 2001US-027738P.
PR 21-MAR-2001; 2001US-027791P.
PR 22-MAR-2001; 2001US-027833P.
PR 23-MAR-2001; 2001US-0278152P.
PR 26-MAR-2001; 2001US-0278894P.
PR 27-MAR-2001; 2001US-0278999P.
PR 27-MAR-2001; 2001US-0279036P.
PR 30-MAR-2001; 2001US-0280233P.
PR 02-APR-2001; 2001US-0280802P.
PR 02-MAY-2001; 2001US-0280852P.
PR 02-MAY-2001; 2001US-0288066P.
PR 02-MAY-2001; 2001US-0288288P.
PR 17-MAY-2001; 2001US-0281766P.
PR 07-JUN-2001; 2001US-0296693P.
PR 08-JUN-2001; 2001US-0296856P.
PR 05-JUL-2001; 2001US-0303230P.
PR 05-JUL-2001; 2001US-0303237P.
PR 08-AUG-2001; 2001US-0310913P.
PR 13-AUG-2001; 2001US-0311978P.
PR 14-AUG-2001; 2001US-0312191P.
PR 16-AUG-2001; 2001US-0312916P.
PR 17-AUG-2001; 2001US-0313182P.
PR 20-AUG-2001; 2001US-0313626P.
PR 21-AUG-2001; 2001US-0314018P.
PR 27-AUG-2001; 2001US-0315227P.

PR 10-SEP-2001; 2001US-0318403P.
PR 10-SEP-2001; 2001US-0318510P.
PR 14-SEP-2001; 2001US-0322296P.
PR 14-SEP-2001; 2001US-0322360P.
PR 09-NOV-2001; 2001US-0332486P.
PR 09-NOV-2001; 2001US-0332486P.
PR 09-NOV-2001; 2001US-0345399P.
PR 07-MAR-2002; 2002US-00094886.

(CURA-) CURAGEN CORP.

PI Kekuda R, Tchervet VT, Liu X, Splytek KA, Paturajan M, Boldog FL, Burges CE, Vermet CM, Li L, Gorman L, Malankar UM, Guo X, Shenoy SG, Padigar M, Taupier RJ, Miller CE, Casman SJ, Pena CE, Gangoli EA, Gusev V, Smithson G, Zerhusen BD, Gerlach V, Pochart PF, Fernandes ER, Shinkets RA, Rastelli L, Spaderma SK, Larochelle WJ, Zhong M, Khramtsov NV, Voss EZ, Herrmann JJ, WPI, 2003-058423/05.
N-PSDB; ABX70411.

PT NOXV polypeptides and polynucleotides, useful for treating a syndrome related to a human disease associated with the NOXV polypeptide e.g., cancer.
PT
PS Claim 1; Page 94; 413pp; English.
PS
CC The present invention relates to the isolation of novel human polypeptides referred to as NOXV (NOV1-NOV4), variants of these proteins, and the polynucleotide sequences encoding them. The NOXV proteins of the invention are G-protein coupled receptor (GPCR) related proteins. The sequences of the invention are useful in the manufacture of a medicament for treating a syndrome related to a human disease associated with the polypeptides e.g. cancer. ABUS2311-ABUS2408 represent the human NOXV proteins of the invention
CC
SQ Sequence 132 AA;

Query Match 100.0%; Score 42; DB 6; Length 132;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKTSYSP 8
DB 95 LTKKTSYSP 102

RESULT 13
ADL23975
ID ADL23975 standard; protein; 132 AA.
XX
AC ADL23975;
XX
XX 20-MAY-2004 (first entry)
DE Human NOXV polypeptide #10.
XX
XX Human; NOXV; G protein-coupled receptor; GPCR; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; aortic stenosis; atrial septal defect; ASD; atriocentric canal defect;
KW ductus arteriosus; pulmonary stenosis; subaortic stenosis;
KW ventricular septal defect; VSD; tuberculous sclerosis; scleroderma; obesity;
KW adrenoleukodystrophy; congenital adrenal hyperplasia; prostatic cancer; neoplasm; adenocarcinoma; lymphoma; uterine cancer; haemophilia;
KW immunodeficiency; idiopathic thrombocytopenia purpura;
KW Crohn's disease; multiple sclerosis;
KW Albright's hereditary osteodystrophy; diabetes; infectious diseases;
KW anorexia; neurodegenerative disorder; Alzheimer's disease;
KW Parkinson's disease; haematopoietic disorder; metabolic disorder;
receptor.
KW
XX Homo sapiens.
OS

XX US2004002120-A1.
PN
XX
XX 01-JAN-2004.
PD
XX
XX 07-MAR-2002; 2002US-00094886.
XX
XX 08-MAR-2001; 2001US-0274194P.
PR 08-MAR-2001; 2001US-0274281P.
PR 08-MAR-2001; 2001US-0274322P.
PR 09-MAR-2001; 2001US-0274499P.
PR 12-MAR-2001; 2001US-0275235P.
PR 13-MAR-2001; 2001US-0275578P.
PR 13-MAR-2001; 2001US-0275579P.
PR 13-MAR-2001; 2001US-0275601P.
PR 14-MAR-2001; 2001US-0276000P.
PR 16-MAR-2001; 2001US-0276776P.
PR 19-MAR-2001; 2001US-0276994P.
PR 20-MAR-2001; 2001US-0277239P.
PR 20-MAR-2001; 2001US-0277327P.
PR 20-MAR-2001; 2001US-0277338P.
PR 21-MAR-2001; 2001US-0277791P.
PR 22-MAR-2001; 2001US-0277833P.
PR 23-MAR-2001; 2001US-0278152P.
PR 26-MAR-2001; 2001US-0278894P.
PR 27-MAR-2001; 2001US-0278999P.
PR 27-MAR-2001; 2001US-0279036P.
PR 30-MAR-2001; 2001US-0280233P.
PR 02-APR-2001; 2001US-0280802P.
PR 02-MAY-2001; 2001US-0280852P.
PR 02-MAY-2001; 2001US-0280866P.
PR 02-MAY-2001; 2001US-0280866P.
PR 17-MAY-2001; 2001US-0291766P.
PR 07-JUN-2001; 2001US-0296693P.
PR 08-JUN-2001; 2001US-0296856P.
PR 05-JUL-2001; 2001US-0303330P.
PR 05-JUL-2001; 2001US-0303337P.
PR 08-AUG-2001; 2001US-0310913P.
PR 13-AUG-2001; 2001US-0311978P.
PR 14-AUG-2001; 2001US-0312912P.
PR 16-AUG-2001; 2001US-0312916P.
PR 17-AUG-2001; 2001US-0313182P.
PR 20-AUG-2001; 2001US-0313626P.
PR 21-AUG-2001; 2001US-0314018P.
PR 27-AUG-2001; 2001US-0315227P.
PR 10-SEP-2001; 2001US-0318403P.
PR 10-SEP-2001; 2001US-0318510P.
PR 14-SEP-2001; 2001US-0322296P.
PR 14-SEP-2001; 2001US-0322360P.
PR 27-SEP-2001; 2001US-0325378P.
PR 09-NOV-2001; 2001US-0332486P.
PR 09-NOV-2001; 2001US-0345399P.
XX
XX (KEKU) KEKUDA R.
PA (TCHE) TCHEVET V T.
PA (LIUX) LIU X.
PA (SPYT) SPYTEK K A.
PA (PATT) PATTURAJAN M.
PA (BURG) BURGESS C E.
PA (VERN) VERNET C A M.
PA (LILL) LI L.
PA (GORM) GORMAN L.
PA (MALY) MALYANKAR U M.
PA (BOLD) BOLDOG F L.
PA (GUOX) GUO X.
PA (SHEN) SHENOY S G.
PA (PADP) PADIGAR M.
PA (TAUP) TAUPIER R J.
PA (MILL) MILLER C E.
PA (CASM) CASMAN S J.
PA (PENNA) PENNA C E A.
PA (GANG) GANGOLI E A.
PA (GUSE) GUSEV V Y.

PF 08-SEP-1989; 89US-00404679.
 XX
 PR 08-SEP-1989; 89US-00404679.
 PR 20-APR-1990; 90US-00512118.
 XX
 PA (CALB-) CALIF INST BIOLOGIC.
 XX
 PI Lenhardt W;
 XX
 DR WPI; 1991-101864/14.
 XX
 PT DNA segment encoding CR-2 ligand and CR2 binding site - used to treat
 PT auto-immune disease, B-cell lymphoma and inhibit Epstein-Barr virus
 PT infection.
 XX
 XS Disclosure; Fig 2; 129pp; English.
 XX
 CC The ligand pref. includes the fragment indicated in the features. The
 CC ligand pref. contains only a single BS and has an amino acid sequence
 CC <100 (pref. <20) residues in length. The ligand may also comprise a
 CC plurality of fragment 75. 82. A therapeutic compn. contg. the
 CC polypeptide is used to stimulate or inhibit B lymphocyte proliferation in
 CC patients with B cell lymphoma. B lymphocytes and myeloma's can be
 CC stimulated in patients with immunodeficiencies and immunoglobulin
 CC secretion by hybridoma cultures can be boosted. The compn. can be
 CC administered to inhibit infection in vitro or in vivo by Epstein-Barr
 CC virus. See also AaQ1140-42 and AaR1355 for IFN alpha. (Updated on 25-
 CC MAR-2003 to correct PI field.)
 XX
 SQ Sequence 150 AA;

Query Match 100.0%; Score 42; DB 2; Length 150;
 Best Local Similarity 100.0%; Pred. No. 4.7;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LREKXTSP 8
 |||||
 |||||
 Db 115 LREKXTSP 122

Search completed: May 19, 2005, 12:52:07
 Job time : 164 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2005, 12:41:57 ; Search time 42 Seconds
(without alignments)
14.219 Million cell updates/sec

Title: US-09-424-080B-1

Perfect score: 42

Sequence: 1 LTKKXSP 8

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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3: /cgn2_6/ptodata/1/1aa/6A COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTUS COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	8	2	US-08-669-284B-30
2	42	100.0	11	1	US-08-362-453-4
3	42	100.0	18	1	US-08-362-453-5
4	42	100.0	133	4	US-07-145-002B-14
5	42	100.0	133	4	US-07-145-002B-23
6	42	100.0	133	4	US-06-256-204C-14
7	42	100.0	133	4	US-06-256-204C-23
8	42	100.0	150	1	US-08-362-453-10
9	42	100.0	150	1	US-08-362-453-11
10	42	100.0	150	1	US-08-362-453-12
11	42	100.0	162	1	US-08-362-453-15
12	42	100.0	165	1	US-08-362-453-13
13	42	100.0	165	1	US-08-362-453-14
14	42	100.0	165	4	US-09-744-754C-13
15	42	100.0	166	1	US-08-362-453-8
16	42	100.0	166	2	US-08-362-453-9
17	42	100.0	166	2	US-08-489-066A-16
18	42	100.0	166	3	US-08-489-072A-16
19	42	100.0	166	3	US-08-819-238A-2
20	42	100.0	166	3	US-08-954-395A-9
21	42	100.0	166	3	US-08-954-395A-10
22	42	100.0	166	3	US-08-954-395A-11
23	42	100.0	166	3	US-08-954-395A-12
24	42	100.0	166	3	US-08-954-395A-13
25	42	100.0	166	3	US-08-954-395A-14
26	42	100.0	166	3	US-08-954-395A-15
27	42	100.0	166	3	US-08-954-395A-16

28	42	100.0	166	3	US-08-954-395A-17	Sequence 17, Appl
29	42	100.0	166	3	US-08-489-071A-16	Sequence 16, Appl
30	42	100.0	166	3	US-09-339-913B-75	Sequence 75, Appl
31	42	100.0	166	3	US-09-339-913B-76	Sequence 76, Appl
32	42	100.0	166	3	US-09-339-913B-77	Sequence 77, Appl
33	42	100.0	166	3	US-09-339-913B-79	Sequence 79, Appl
34	42	100.0	166	3	US-09-339-913B-80	Sequence 80, Appl
35	42	100.0	166	3	US-09-339-913B-83	Sequence 83, Appl
36	42	100.0	166	3	US-09-339-913B-84	Sequence 84, Appl
37	42	100.0	166	3	US-09-339-913B-85	Sequence 85, Appl
38	42	100.0	166	3	US-09-339-904A-75	Sequence 75, Appl
39	42	100.0	166	3	US-09-339-904A-76	Sequence 76, Appl
40	42	100.0	166	3	US-09-339-904A-77	Sequence 77, Appl
41	42	100.0	166	3	US-09-339-904A-79	Sequence 79, Appl
42	42	100.0	166	3	US-09-339-904A-80	Sequence 80, Appl
43	42	100.0	166	3	US-09-339-904A-83	Sequence 83, Appl
44	42	100.0	166	3	US-09-339-904A-84	Sequence 84, Appl
45	42	100.0	166	3	US-09-339-904A-85	Sequence 85, Appl

ALIGNMENTS

RESULT 1
US-08-669-284B-30
; Sequence 30, Application US/08669284B
; Patent No. 593934
; GENERAL INFORMATION:
; APPLICANT: Inoue, Makoto
; APPLICANT: Kikuchi, Kaoru
; APPLICANT: Ishige, Yoko
; APPLICANT: Ito, Akira
; APPLICANT: Kimura, Toru
; APPLICANT: Nakayama, Chikao
; APPLICANT: No. 593934uchi, Hiroshi
; TITLE OF INVENTION: NOVEL HUMAN CILIARY NEUTROPHIL FACTORS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SUGHRUE, MTON, ZINN, MACPHEAK & SEAS
; STREET: 2100 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/669, 284B
; FILING DATE: 28-JUN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/JP94/02269
; FILING DATE: 27-DEC-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 06-268281
; FILING DATE: 05-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 06-201504
; FILING DATE: 02-AUG-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 05-350934
; FILING DATE: 29-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Nakamura, Dean H.
; REGISTRATION NUMBER: 33,981
; REFERENCE/DOCKET NUMBER: O-42041
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)293-7060
; TELEFAX: (202)293-7860
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:

LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-669-284B-30

Query Match 100.0%; Score 42; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4,1e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
Db 1 LTERKXSP 8

RESULT 2

US-08-362-453-4
Sequence 4, Application US/08362453
Patent No. 5684129

GENERAL INFORMATION:

APPLICANT: FISH, Eleanor N.

TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nikaido, Marmelstein, Murray & Oram

STREET: 655 Fifteenth Street N.W. Suite 330

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20005-5701

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/362,453

FILING DATE: 06-JAN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/909,739

APPLICATION NUMBER: FILING DATE: 07-JUL-1992

APPLICATION NUMBER: US 07/980,525

APPLICATION NUMBER: FILING DATE: 20-NOV-1992

APPLICATION NUMBER: PCT/CA93/00279

APPLICATION NUMBER: FILING DATE: 06-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kites, Monica Chin

REGISTRATION NUMBER: 36,105

REFERENCE/DOCKET NUMBER: P638-4017

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 638-5000

TELEFAX: (202) 638-4810

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: unknown

MOLECULE TYPE: peptide

US-08-362-453-4

Query Match 100.0%; Score 42; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
Db 2 LTERKXSP 9

RESULT 3
US-08-362-453-5

Sequence 5, Application US/08362453
Patent No. 5684129

GENERAL INFORMATION:

APPLICANT: FISH, Eleanor N.

TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nikaido, Marmelstein, Murray & Oram

STREET: 655 Fifteenth Street N.W. Suite 330

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20005-5701

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/362,453

FILING DATE: 06-JAN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/909,739

APPLICATION NUMBER: FILING DATE: 07-JUL-1992

APPLICATION NUMBER: US 07/980,525

APPLICATION NUMBER: FILING DATE: 20-NOV-1992

APPLICATION NUMBER: PCT/CA93/00279

APPLICATION NUMBER: FILING DATE: 06-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kites, Monica Chin

REGISTRATION NUMBER: 36,105

REFERENCE/DOCKET NUMBER: P638-4017

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 638-5000

TELEFAX: (202) 638-4810

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 amino acids

TYPE: amino acid

TOPOLOGY: unknown

MOLECULE TYPE: peptide

US-08-362-453-5

Query Match 100.0%; Score 42; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
Db 9 LTERKXSP 16

RESULT 4

US-07-145-002B-14
Sequence 14, Application US/07145002B
Patent No. 6482613

GENERAL INFORMATION:

APPLICANT: Goeddel, David V.

TITLE OF INVENTION: MICROBIAL PRODUCTION OF MATURE HUMAN

FILE REFERENCE: 1803-0088-999

CURRENT APPLICATION NUMBER: US/07/145,002B

CURRENT FILING DATE: 1989-01-19

NUMBER OF SEQ ID NOS: 70

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 14

LENGTH: 133

TYPE: PRT

ORGANISM: Homo sapiens

US-07-145-002B-14

Query Match 100.0%; Score 42; DB 4; Length 133;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
|||||
98 LTRKXSP 105

RESULT 5
US-07-145-002B-23

; Sequence 23, Application US/07145002B
; Patent No. 6482613

; GENERAL INFORMATION:
; APPLICANT: Goeddel, David V.

; APPLICANT: Pestka, Sidney
; TITLE OF INVENTION: MICROBIAL PRODUCTION OF MATURE HUMAN

; FILE REFERENCE: 1803-0088-999
; CURRENT APPLICATION NUMBER: US/07/145.002B

; CURRENT FILING DATE: 1989-01-19
; NUMBER OF SEQ ID NOS: 70

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23

; LENGTH: 133
; TYPE: PRT

; ORGANISM: Homo sapiens
US-07-145-002B-23

Query Match 100.0%; Score 42; DB 4; Length 133;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
|||||
98 LTRKXSP 105

RESULT 6
US-06-256-204C-14

; Sequence 14, Application US/06256204C
; Patent No. 6610830

; GENERAL INFORMATION:
; APPLICANT: Goeddel, David V.

; APPLICANT: Pestka, Sidney
; TITLE OF INVENTION: MICROBIAL PRODUCTION OF MATURE HUMAN

; FILE REFERENCE: 1803-0025-999
; CURRENT APPLICATION NUMBER: US/06/256.204C

; CURRENT FILING DATE: 1981-04-21
; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14

; LENGTH: 133
; TYPE: PRT

; ORGANISM: Homo sapiens
US-06-256-204C-14

Query Match 100.0%; Score 42; DB 4; Length 133;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
|||||
98 LTRKXSP 105

RESULT 7
US-06-256-204C-23

; Sequence 23, Application US/06256204C
; Patent No. 6610830

; GENERAL INFORMATION:
; APPLICANT: Goeddel, David V.

; APPLICANT: Pestka, Sidney
; TITLE OF INVENTION: MICROBIAL PRODUCTION OF MATURE HUMAN

; FILE REFERENCE: 1803-0025-999
; CURRENT APPLICATION NUMBER: US/06/256.204C

; CURRENT FILING DATE: 1981-04-21
; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23

; LENGTH: 133
; TYPE: PRT

; ORGANISM: Homo sapiens
US-06-256-204C-23

Query Match 100.0%; Score 42; DB 4; Length 133;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
|||||
98 LTRKXSP 105

RESULT 8
US-08-362-453-10

; Sequence 10, Application US/08362453
; Patent No. 5684129

; GENERAL INFORMATION:
; APPLICANT: Fish, Eleanor N.

; TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
; NUMBER OF SEQUENCES: 17

; CORRESPONDENCE ADDRESS:
; ADDRESSES: Mikaido, Marmelstein, Murray & Oram

; STREET: 655 Fifteenth Street N.W. Suite 330
; CITY: Washington

; STATE: D.C.
; COUNTRY: U.S.A.

; ZIP: 20005-5701
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362.453

; FILING DATE: 06-JAN-1995
; CLASSIFICATION: 514

; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,739

; FILING DATE: 07-JUL-1992
; APPLICATION NUMBER: US 07/980,525

; FILING DATE: 20-NOV-1992
; APPLICATION NUMBER: PCT/CA93/00279

; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:

; NAME: Kirts, Monica Chin
; REGISTRATION NUMBER: 36,105

; REFERENCE/DOCKET NUMBER: P638-4017
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 638-5000
; TELEFAX: (202) 638-4810

; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 150 amino acids
; TYPE: amino acid

; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-362-453-10

Query Match 100.0%; Score 42; DB 1; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
DB 126 LTKKXSP 133

RESULT 9

US-08-362-453-11
; Sequence 11, Application US/08362453
; Patent No. 5684129
; GENERAL INFORMATION:
; APPLICANT: FISH, Eleanor N.
; TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram
; STREET: 655 Fifteenth Street N.W. Suite 330
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,453
; FILING DATE: 06-JAN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,739
; APPLICATION NUMBER: FILING DATE: 07-JUL-1992
; APPLICATION NUMBER: US 07/980,525
; APPLICATION NUMBER: FILING DATE: 20-NOV-1992
; APPLICATION NUMBER: PCT/CA93/00279
; APPLICATION NUMBER: FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kites, Monica Chin
; REGISTRATION NUMBER: 36,105
; REFERENCE/DOCKET NUMBER: P638-4017
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-5000
; TELEFAX: (202) 638-4810
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 150 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-362-453-11

Query Match 100.0%; Score 42; DB 1; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
DB 126 LTKKXSP 133

RESULT 10
US-08-362-453-12
; Sequence 12, Application US/08362453
; Patent No. 5684129
; GENERAL INFORMATION:
; APPLICANT: FISH, Eleanor N.
; TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram
; STREET: 655 Fifteenth Street N.W. Suite 330
; CITY: Washington
; STATE: D.C.

COUNTRY: U.S.A.
ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/362,453
FILING DATE: 06-JAN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/909,739
APPLICATION NUMBER: FILING DATE: 07-JUL-1992
APPLICATION NUMBER: US 07/980,525
APPLICATION NUMBER: FILING DATE: 20-NOV-1992
APPLICATION NUMBER: PCT/CA93/00279
APPLICATION NUMBER: FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kites, Monica Chin
REGISTRATION NUMBER: 36,105
REFERENCE/DOCKET NUMBER: P638-4017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 638-5000
TELEFAX: (202) 638-4810
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 150 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-362-453-12

Query Match 100.0%; Score 42; DB 1; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTKKXSP 8
DB 126 LTKKXSP 133

RESULT 11
US-08-362-453-15
; Sequence 15, Application US/08362453
; Patent No. 5684129
; GENERAL INFORMATION:
; APPLICANT: FISH, Eleanor N.
; TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram
; STREET: 655 Fifteenth Street N.W. Suite 330
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,453
; FILING DATE: 06-JAN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,739
; APPLICATION NUMBER: FILING DATE: 07-JUL-1992
; APPLICATION NUMBER: US 07/980,525
; APPLICATION NUMBER: FILING DATE: 20-NOV-1992
; APPLICATION NUMBER: PCT/CA93/00279
; APPLICATION NUMBER: FILING DATE: 06-JUL-1993

ATTORNEY/AGENT INFORMATION:
NAME: Kltts, Monica Chin
REGISTRATION NUMBER: 36,105
REFERENCE/DOCKET NUMBER: P638-4017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 638-5000
TELEFAX: (202) 638-4810
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-362-453-15

Query Match 100.0%; Score 42; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
DB 127 LEEKKXSP 134

RESULT 12
US-08-362-453-13
Sequence 13, Application US/08362453
Patent No. 5684129
GENERAL INFORMATION:
APPLICANT: FISH, Eleanor N.
TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nikaïdo, Marmelstein, Murray & Oram
STREET: 655 Fifteenth Street N.W. Suite 330
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/362,453
FILING DATE: 06-JAN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/909,739
FILING DATE: 07-JUL-1992
APPLICATION NUMBER: US 07/980,525
APPLICATION NUMBER: FILING DATE: 20-NOV-1992
APPLICATION NUMBER: PCT/CA93/00279
APPLICATION NUMBER: FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kltts, Monica Chin
REGISTRATION NUMBER: 36,105
REFERENCE/DOCKET NUMBER: P638-4017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 638-5000
TELEFAX: (202) 638-4810
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-362-453-13

Query Match 100.0%; Score 42; DB 1; Length 165;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
DB 130 LEEKKXSP 137

RESULT 13
US-08-362-453-14
Sequence 14, Application US/08362453
Patent No. 5684129
GENERAL INFORMATION:
APPLICANT: FISH, Eleanor N.
TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nikaïdo, Marmelstein, Murray & Oram
STREET: 655 Fifteenth Street N.W. Suite 330
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/362,453
FILING DATE: 06-JAN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/909,739
FILING DATE: 07-JUL-1992
APPLICATION NUMBER: US 07/980,525
APPLICATION NUMBER: FILING DATE: 20-NOV-1992
APPLICATION NUMBER: PCT/CA93/00279
APPLICATION NUMBER: FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kltts, Monica Chin
REGISTRATION NUMBER: 36,105
REFERENCE/DOCKET NUMBER: P638-4017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 638-5000
TELEFAX: (202) 638-4810
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-362-453-14

Query Match 100.0%; Score 42; DB 1; Length 165;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
DB 130 LEEKKXSP 137

RESULT 14
US-09-744-754C-13
Sequence 13, Application US/09744754C
Patent No. 6685933
GENERAL INFORMATION:
APPLICANT: Zoon, et al.
TITLE OF INVENTION: Interferon Alpha Hybrids
FILE REFERENCE: 4239-56957
CURRENT APPLICATION NUMBER: US/09/744,754C
CURRENT FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: US 60/094,407
PRIOR FILING DATE: 1998-07-28

Db 131 LTKKXSP 138
 Search completed: May 19, 2005, 12:56:39
 Job time : 42 secs

PRIOR APPLICATION NUMBER: PCT/US99/15284
 PRIOR FILING DATE: 1999-07-06
 NUMBER OF SEQ ID NOS: 42
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 13
 LENGTH: 165
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Gene Fusion
 US-09-744-754C-13

Query Match 100.0%; Score 42; DB 4; Length 165;
 Best Local Similarity 100.0%; Pred. No. 0.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
 130 LTKKXSP 137

RESULT 15
 US-08-362-453-8
 Sequence 8, Application US/08362453
 Patent No. 5684129
 GENERAL INFORMATION:
 APPLICANT: FISH, Eleanor N.
 TITLE OF INVENTION: INTERFERON RECEPTOR BINDING PEPTIDES
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nikaido, Marmelstein, Murray & Oram
 STREET: 655 Fifteenth Street N.W. Suite 330
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005-5701
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/362,453
 FILING DATE: 06-JAN-1995
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/909,739
 FILING DATE: 07-JUL-1992
 APPLICATION NUMBER: US 07/980,525
 FILING DATE: 20-NOV-1992
 APPLICATION NUMBER: PCT/CA93/00279
 APPLICATION NUMBER: FILING DATE: 06-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Kitis, Monica Chin
 REGISTRATION NUMBER: 36,105
 REFERENCE/DOCKET NUMBER: P638-4017
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 638-5000
 TELEFAX: (202) 638-4810
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 166 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-08-362-453-8

Query Match 100.0%; Score 42; DB 1; Length 166;
 Best Local Similarity 100.0%; Pred. No. 0.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
 130 LTKKXSP 137

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2005, 12:55:17 ; Search time 134 Seconds
(without alignments)
19.971 Million cell updates/sec

Title: US-09-424-080b-1

Perfect score: 42

Sequence: 1 LTRKXSP 8

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Total number of hits satisfying chosen parameters: 1434725

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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- 19: /cgn2_6/ptodata/2/pubppaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubppaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	42	100.0	151	15	US-10-094-886-18
3	42	100.0	165	15	US-10-615-723-13
4	42	100.0	165	16	US-10-658-834A-111
5	42	100.0	165	16	US-10-658-834A-232
6	42	100.0	165	17	US-10-775-180-457
7	42	100.0	165	17	US-10-775-180-467
8	42	100.0	165	17	US-10-775-180-472
9	42	100.0	165	17	US-10-775-180-477
10	42	100.0	166	9	US-09-559-671A-75
11	42	100.0	166	9	US-09-559-671A-76
12	42	100.0	166	9	US-09-559-671A-77
13	42	100.0	166	9	US-09-559-671A-79

14	42	100.0	166	9	US-09-559-671A-80	Sequence 80, Appl
15	42	100.0	166	9	US-09-559-671A-83	Sequence 84, Appl
16	42	100.0	166	9	US-09-559-671A-84	Sequence 84, Appl
17	42	100.0	166	9	US-09-559-671A-85	Sequence 85, Appl
18	42	100.0	166	9	US-09-977-034-2	Sequence 2, Appl1
19	42	100.0	166	9	US-09-977-034-8	Sequence 8, Appl1
20	42	100.0	166	9	US-09-977-034-10	Sequence 10, Appl
21	42	100.0	166	9	US-09-977-034-11	Sequence 11, Appl
22	42	100.0	166	9	US-09-977-034-12	Sequence 12, Appl
23	42	100.0	166	9	US-09-977-034-18	Sequence 18, Appl
24	42	100.0	166	9	US-09-977-034-19	Sequence 19, Appl
25	42	100.0	166	9	US-09-977-034-31	Sequence 31, Appl
26	42	100.0	166	10	US-09-954-692-75	Sequence 75, Appl
27	42	100.0	166	10	US-09-954-692-76	Sequence 76, Appl
28	42	100.0	166	10	US-09-954-692-77	Sequence 77, Appl
29	42	100.0	166	10	US-09-954-692-79	Sequence 79, Appl
30	42	100.0	166	10	US-09-954-692-80	Sequence 80, Appl
31	42	100.0	166	10	US-09-954-692-83	Sequence 83, Appl
32	42	100.0	166	10	US-09-954-692-84	Sequence 84, Appl
33	42	100.0	166	10	US-09-954-692-85	Sequence 85, Appl
34	42	100.0	166	11	US-09-994-425-2	Sequence 2, Appl1
35	42	100.0	166	14	US-10-137-127-2	Sequence 2, Appl1
36	42	100.0	166	14	US-10-137-127-6	Sequence 6, Appl1
37	42	100.0	166	14	US-10-400-377-4	Sequence 4, Appl1
38	42	100.0	166	14	US-10-400-708-4	Sequence 4, Appl1
39	42	100.0	166	14	US-10-298-148-4	Sequence 4, Appl1
40	42	100.0	166	15	US-10-389-674-38	Sequence 38, Appl
41	42	100.0	166	15	US-10-389-674-43	Sequence 43, Appl
42	42	100.0	166	15	US-10-389-674-44	Sequence 44, Appl
43	42	100.0	166	15	US-10-389-674-47	Sequence 47, Appl
44	42	100.0	166	15	US-10-389-674-48	Sequence 48, Appl
45	42	100.0	166	15	US-10-389-674-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1
US-10-094-886-20
; Sequence 20, Application US/10094886
; Publication No. US20040002120A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Rameesh
; APPLICANT: Tchernyev, Velizar T.
; APPLICANT: Liu, Xiaohong
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Patuturajan, Meera
; APPLICANT: Burgess, Catherine
; APPLICANT: Vermet, Corine A.
; APPLICANT: Li, Li
; APPLICANT: Gorman, Linda
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Boldog, Ferenc
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shenoy, Suresh
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Raupier, Raymond J., Jr.
; APPLICANT: Miller, Charles
; APPLICANT: Casman, Stacie
; APPLICANT: Pena, Carol
; APPLICANT: Gangolli, Esha
; APPLICANT: Gusev, Vladimir
; APPLICANT: Smithson, Glenda
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Gerlach, Valerie
; APPLICANT: Pochart, Pascal
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard
; APPLICANT: Rastelli, Luca
; APPLICANT: Lapochelle, Steven
; APPLICANT: LaRoche, William
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHODS

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FILE REFERENCE: 21402-290 B
CURRENT APPLICATION NUMBER: US/10/094,886
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: 60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/313,182
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: 60/288,052
PRIOR FILING DATE: 2001-05-02
PRIOR APPLICATION NUMBER: 60/318,510
PRIOR FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/314,018
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/274,194
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/274,849
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 60/296,693
PRIOR FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/313,626
PRIOR FILING DATE: 2001-08-21
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 298
SOFTWARE: PatentIn 2.1
SEQ ID NO 20
LENGTH: 132
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-886-20
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Query Match      100.0%; Score 42; DB 15; Length 132;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LTERKXSP 8
DB 95 LTERKXSP 102
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RESULT 2

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US-10-094-886-18
Sequence 18, Application US/10094886
Publication No. US20040002120A1
GENERAL INFORMATION:
APPLICANT: Kekuda, Ramesh
APPLICANT: Tchervnev, Vellizar T.
APPLICANT: Liu, Xiaohong
APPLICANT: Spytek, Kimberly A.
APPLICANT: Patturajan, Weera
APPLICANT: Burgess, Catherine
APPLICANT: Vernet, Corine A.
APPLICANT: Li, Li
APPLICANT: Gorman, Linda
APPLICANT: Malyankar, Uriel M.
APPLICANT: Boldog, Ferenc
APPLICANT: Guo, Xiaojia
APPLICANT: Shenoy, Suresh
APPLICANT: Padigaru, Muralidhara
APPLICANT: Taupier, Raymond J., Jr.
APPLICANT: Miller, Charles
APPLICANT: Casman, Stacie
APPLICANT: Pena, Carol
APPLICANT: Gangoli, Esna
APPLICANT: Gusev, Vladimir
APPLICANT: Smithson, Glenda
APPLICANT: Zernusen, Bryan
APPLICANT: Gerlach, Valerie
APPLICANT: Pochart, Pascal
APPLICANT: Fernandes, Elma
APPLICANT: Shimkets, Richard
APPLICANT: Raetelli, Luca
```

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APPLICANT: Spaderna, Steven
APPLICANT: Larocheille, William
APPLICANT: Zhong, Mei
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-290 B
CURRENT APPLICATION NUMBER: US/10/094,886
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: 60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/313,182
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: 60/288,052
PRIOR FILING DATE: 2001-05-02
PRIOR APPLICATION NUMBER: 60/318,510
PRIOR FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/314,018
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/274,194
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/274,849
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 60/296,693
PRIOR FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/313,626
PRIOR FILING DATE: 2001-08-21
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 298
SOFTWARE: PatentIn 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-886-18
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Query Match      100.0%; Score 42; DB 15; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LTERKXSP 8
DB 116 LTERKXSP 123
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RESULT 3

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US-10-615-723-13
Sequence 13, Application US/10615723
Publication No. US20040018172A1
GENERAL INFORMATION:
APPLICANT: Zoon, et al.
TITLE OF INVENTION: Interferon Alpha Hybrids
FILE REFERENCE: 4239-56957
CURRENT APPLICATION NUMBER: US/10/615,723
CURRENT FILING DATE: 2003-07-08
PRIOR APPLICATION NUMBER: US/09/744,754C
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: US 60/094,407
PRIOR FILING DATE: 1998-07-28
PRIOR APPLICATION NUMBER: PCT/US99/15284
PRIOR FILING DATE: 1999-07-06
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn version 3.2
SEQ ID NO 13
LENGTH: 165
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Gene Fusion
US-10-615-723-13
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Query Match      100.0%; Score 42; DB 15; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LTKKXSP 8
Db 130 LTKKXSP 137

RESULT 4
US-10-658-834A-111
Sequence 111, Application US/10658834A
Publication No. US20040132977A1
GENERAL INFORMATION:
APPLICANT: Gantier, Rene
APPLICANT: Guyon, Thierry
APPLICANT: Dittanti, Lila
APPLICANT: Vega, Manuel
TITLE OF INVENTION: Rational Evolution of Cytokines for Higher Stability, Encoding Nu
FILE REFERENCE: 38751-922
CURRENT APPLICATION NUMBER: US/10/658,834A
PRIOR FILING DATE: 2003-09-08
PRIOR FILING DATE: 2003-03-21
PRIOR APPLICATION NUMBER: 60/457,135
PRIOR FILING DATE: 2002-09-09
NUMBER OF SEQ ID NOS: 1306
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 111
LENGTH: 165
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: K131T Mutant IFN-alpha 2b
US-10-658-834A-111

Query Match 100.0%; Score 42; DB 16; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
Db 130 LTKKXSP 137

RESULT 5
US-10-658-834A-232
Sequence 232, Application US/10658834A
Publication No. US20040132977A1
GENERAL INFORMATION:
APPLICANT: Gantier, Rene
APPLICANT: Guyon, Thierry
APPLICANT: Dittanti, Lila
APPLICANT: Vega, Manuel
TITLE OF INVENTION: Rational Evolution of Cytokines for Higher Stability, Encoding Nu
FILE REFERENCE: 38751-922
CURRENT APPLICATION NUMBER: US/10/658,834A
PRIOR FILING DATE: 2003-09-08
PRIOR FILING DATE: 2003-03-21
PRIOR APPLICATION NUMBER: 60/457,135
PRIOR FILING DATE: 2002-09-09
NUMBER OF SEQ ID NOS: 1306
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 232
LENGTH: 165
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Interferon alpha consensus sequence
US-10-658-834A-232

Query Match 100.0%; Score 42; DB 16; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
Db 130 LTKKXSP 137

RESULT 6
US-10-775-180-457
Sequence 457, Application US/10775180
Publication No. US20050054570A1
GENERAL INFORMATION:
APPLICANT: Rosen, Craig A.
APPLICANT: Haseltine, William A.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF574
CURRENT APPLICATION NUMBER: US/10/775,180
PRIOR FILING DATE: 2004-02-11
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: PCT/US02/40892
PRIOR FILING DATE: 2001-12-21
PRIOR FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/341,811
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: 60/378,950
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/398,008
PRIOR FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: 60/411,355
PRIOR FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/414,984
PRIOR FILING DATE: 2002-10-02
PRIOR APPLICATION NUMBER: 60/417,611
PRIOR FILING DATE: 2002-10-11
PRIOR APPLICATION NUMBER: 60/420,246
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/423,623
PRIOR FILING DATE: 2002-11-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 858
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 457
LENGTH: 165
TYPE: PRT
ORGANISM: Homo sapiens
US-10-775-180-457

Query Match 100.0%; Score 42; DB 17; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
Db 130 LTKKXSP 137

RESULT 7
US-10-775-180-467
Sequence 467, Application US/10775180
Publication No. US20050054570A1
GENERAL INFORMATION:
APPLICANT: Rosen, Craig A.
APPLICANT: Haseltine, William A.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF574
CURRENT APPLICATION NUMBER: US/10/775,180
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: PCT/US02/40892
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: 60/341,811

PRIOR FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/360,000
PRIOR FILING DATE: 2002-02-26
PRIOR APPLICATION NUMBER: 60/378,950
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/398,008
PRIOR FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: 60/411,355
PRIOR FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/414,984
PRIOR FILING DATE: 2002-10-02
PRIOR APPLICATION NUMBER: 60/417,611
PRIOR FILING DATE: 2002-10-11
PRIOR APPLICATION NUMBER: 60/420,246
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/423,623
PRIOR FILING DATE: 2002-11-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 858
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 467
LENGTH: 165
TYPE: PRT
ORGANISM: Homo sapiens
US-10-775-180-467

Query Match 100.0%; Score 42; DB 17; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
 |||||
DB 130 LEEKKXSP 137

RESULT 8
US-10-775-180-472
Sequence 472, Application US/10775180
Publication No. US20050054570A1
GENERAL INFORMATION:
APPLICANT: Rosen, Craig A.
APPLICANT: Haseltine, William A.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF574
CURRENT APPLICATION NUMBER: US/10/775,180
CURRENT FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: PCT/US02/40892
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: 60/341,811
PRIOR FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/360,000
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: 60/378,950
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/398,008
PRIOR FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: 60/411,355
PRIOR FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/414,984
PRIOR FILING DATE: 2002-10-02
PRIOR APPLICATION NUMBER: 60/417,611
PRIOR FILING DATE: 2002-10-11
PRIOR APPLICATION NUMBER: 60/420,246
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/423,623
PRIOR FILING DATE: 2002-11-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 858
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 472
LENGTH: 165
TYPE: PRT
ORGANISM: Homo sapiens

US-10-775-180-472

Query Match 100.0%; Score 42; DB 17; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
 |||||
DB 130 LEEKKXSP 137

RESULT 9
US-10-775-180-477
Sequence 477, Application US/10775180
Publication No. US20050054570A1
GENERAL INFORMATION:
APPLICANT: Rosen, Craig A.
APPLICANT: Haseltine, William A.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF574
CURRENT APPLICATION NUMBER: US/10/775,180
CURRENT FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: PCT/US02/40892
PRIOR FILING DATE: 2002-12-23
PRIOR APPLICATION NUMBER: 60/341,811
PRIOR FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/360,000
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: 60/378,950
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/398,008
PRIOR FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: 60/411,355
PRIOR FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/414,984
PRIOR FILING DATE: 2002-10-02
PRIOR APPLICATION NUMBER: 60/417,611
PRIOR FILING DATE: 2002-10-11
PRIOR APPLICATION NUMBER: 60/420,246
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/423,623
PRIOR FILING DATE: 2002-11-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 858
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 477
LENGTH: 165
TYPE: PRT
ORGANISM: Homo sapiens
US-10-775-180-477

Query Match 100.0%; Score 42; DB 17; Length 165;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEEKKXSP 8
 |||||
DB 130 LEEKKXSP 137

RESULT 10
US-09-559-671A-75
Sequence 75, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patcen, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18

PRIOR APPLICATION NUMBER: 08/198,431
PRIOR FILING DATE: 1994-02-17
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 75
LENGTH: 166
TYPE: PRT
ORGANISM: consensus alpha interferon
US-09-559-671A-75

Query Match 100.0%; Score 42; DB 9; Length 166;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
|||||
Db 131 LTKKXSP 138

RESULT 11
US-09-559-671A-76
Sequence 76, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/198,431
PRIOR FILING DATE: 1994-02-17
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 76
LENGTH: 166
TYPE: PRT
ORGANISM: human alpha interferon
US-09-559-671A-76

Query Match 100.0%; Score 42; DB 9; Length 166;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
|||||
Db 131 LTKKXSP 138

RESULT 12
US-09-559-671A-77
Sequence 77, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/198,431

PRIOR FILING DATE: 1994-02-17
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 77
LENGTH: 166
TYPE: PRT
ORGANISM: human alpha interferon
US-09-559-671A-77

Query Match 100.0%; Score 42; DB 9; Length 166;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
|||||
Db 131 LTKKXSP 138

RESULT 13
US-09-559-671A-79
Sequence 79, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/198,431
PRIOR FILING DATE: 1994-02-17
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 79
LENGTH: 166
TYPE: PRT
ORGANISM: human alpha interferon
US-09-559-671A-79

Query Match 100.0%; Score 42; DB 9; Length 166;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
|||||
Db 131 LTKKXSP 138

RESULT 14
US-09-559-671A-80
Sequence 80, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/198,431
PRIOR FILING DATE: 1994-02-17

PRIOR APPLICATION NUMBER: 08/425,684
 PRIOR FILING DATE: 1995-04-18
 PRIOR APPLICATION NUMBER: 08/537,874
 PRIOR FILING DATE: 1995-10-30
 NUMBER OF SEQ ID NOS: 101
 SOFTWARE: Patentln Ver. 2.0
 SEQ ID NO: 80
 LENGTH: 166
 TYPE: PRT
 ORGANISM: human alpha interferon
 US-09-559-671A-80

Query Match 100.0%; Score 42; DB 9; Length 166;
 Best Local Similarity 100.0%; Pred. No. 2;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTKKYS 8
 Db 131 LTKKYS 138

RESULT 15
 US-09-559-671A-83
 Sequence 83, Application US/09559671A
 Patent No. US20020051976A1
 GENERAL INFORMATION:
 APPLICANT: Patten, Phillip
 APPLICANT: Stemmer, William P.C.
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
 FILE REFERENCE: 02-02050305
 CURRENT APPLICATION NUMBER: US/09-559,671A
 PRIOR FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: 08/769,062
 PRIOR FILING DATE: 1996-12-18
 PRIOR APPLICATION NUMBER: 08/198,431
 PRIOR FILING DATE: 1994-02-17
 PRIOR APPLICATION NUMBER: 08/425,684
 PRIOR FILING DATE: 1995-04-18
 PRIOR APPLICATION NUMBER: 08/537,874
 PRIOR FILING DATE: 1995-10-30
 NUMBER OF SEQ ID NOS: 101
 SOFTWARE: Patentln Ver. 2.0
 SEQ ID NO: 83
 LENGTH: 166
 TYPE: PRT
 ORGANISM: human alpha interferon
 US-09-559-671A-83

Query Match 100.0%; Score 42; DB 9; Length 166;
 Best Local Similarity 100.0%; Pred. No. 2;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTKKYS 8
 Db 131 LTKKYS 138

Search completed: May 19, 2005, 13:08:09
 Job time : 135 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2005, 12:39:16 ; Search time 39 Seconds
(Without alignments)
19.737 Million cell updates/sec

Title: US-09-424-080B-1
Perfect score: 42
Sequence: 1 LTRKXSP 8

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	72	2	I79343
2	42	100.0	167	2	D25843
3	42	100.0	167	2	E25843
4	42	100.0	176	2	I56314
5	42	100.0	181	2	I56313
6	42	100.0	189	1	IVHUAB
7	42	100.0	189	1	IVHUA7
8	42	100.0	189	1	IVHUA7
9	42	100.0	189	1	IVHUA7
10	42	100.0	189	1	IVHUA7
11	42	100.0	189	1	IVHUA7
12	42	100.0	189	1	IVHUA7
13	42	100.0	189	2	I84464
14	42	100.0	189	2	I53102
15	42	100.0	189	2	I53102
16	36	85.7	165	2	I78570
17	36	85.7	165	2	I78570
18	36	85.7	170	2	A48772
19	36	85.7	184	1	IVHOA1
20	36	85.7	184	1	IVHOA2
21	36	85.7	184	1	IVHOA3
22	36	85.7	184	1	IVHOA4
23	36	85.7	189	1	IVHUA2
24	36	85.7	189	1	IVHUA2
25	36	85.7	189	1	IVHUA0
26	36	85.7	194	2	US0664
27	36	85.7	730	2	H86295
28	35	83.3	162	2	C25843
29	35	83.3	189	1	IVHUA4

30	35	83.3	189	1	IVHUI8	interferon alpha-1
31	35	83.3	195	1	IVHO21	interferon alpha-1
32	33	78.6	110	2	F85431	hypothetical prote
33	33	78.6	189	1	IVHUA5	interferon alpha-5
34	33	78.6	217	2	B91205	hypothetical prote
35	33	78.6	221	2	D86051	hypothetical prote
36	32	76.2	114	2	S69147	immunomodulatory p
37	32	76.2	414	2	D96524	protein TNF15.3 (1
38	32	76.2	573	2	T27578	hypothetical prote
39	32	76.2	1528	2	T37308	ATPase homolog - C
40	31	73.8	112	2	C90559	hypothetical prote
41	31	73.8	189	1	IVMSA1	interferon alpha-1
42	31	73.8	189	1	IVMSA5	interferon alpha-1
43	31	73.8	189	1	IVMSA6	interferon alpha-1
44	31	73.8	189	1	S23709	interferon alpha-1
45	31	73.8	189	2	I49773	murine interferon

ALIGNMENTS

RESULT 1
I79343
interferon alpha T - human (fragment)
C/Species: Homo sapiens (man)
C/Date: 31-May-1996 #sequence_revision 31-May-1996 #text_change 16-Jul-1999
C/Accession: I79343
R;Jund, B.; Edlund, T.; Lindemeyer, W.; NY, T.; Collins, J.; Lundgren, E.; von Gabain, J.
Proc. Natl. Acad. Sci. U.S.A. 81, 2435-2439, 1984
A/Title: Novel cluster of alpha-interferon gene sequences in a placental cosmid DNA lib
A/Reference number: I58999; MUID:84194022; PMID:6326127
A/Accession: I79343
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-72 <RES>
A/Cross-references: GB:K01461; NID:g184575; PIDN:AAA5685.1; PID:g184579
C/Superfamily: interferon alpha

Query Match 100.0%; Score 42; DB 2; Length 72;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
Db 65 LTRKXSP 72

RESULT 2
D25843
interferon alpha-G - human
N/Alternate names: human leukocyte interferon (IFN)
C/Species: Homo sapiens (man)
C/Date: 16-Aug-1988 #sequence_revision 16-Aug-1988 #text_change 15-Jun-1996
C/Accession: D25843
R;Ohara, O.; Terakoka, H.
FEBS Lett. 211, 78-82, 1987
A/Title: Anomalous behavior of human leukocyte interferon subtypes on polyacrylamide gel
A/Reference number: A91374; MUID:87105954; PMID:3803559
A/Accession: D25843
A/Status: nucleic acid sequence not shown; not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 1-167 <OHA>
C/Superfamily: interferon alpha

Query Match 100.0%; Score 42; DB 2; Length 167;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTRKXSP 8
Db 132 LTRKXSP 139

```

RESULT 3
E25843
Interferon alpha-F - human
N:Alternate names: human leukocyte interferon (IFN)
C:Species: Homo sapiens (man)
C>Date: 16-Aug-1988 #sequence_revision 16-Aug-1988 #text_change 09-Jul-2004
C:Accession: E25843
R:Ohara, O.; Teraoka, H.
FEBS Lett. 211, 78-82, 1987
A:Title: Anomalous behavior of human leukocyte interferon subtypes on polyacrylamide gel
A:Reference number: A91374; MUID:87105954; PMID:3803589
A:Accession: E25843
A:Status: nucleic acid sequence not shown; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-167 <OHA>
A:Cross-references: UNIPROT:Q14608
C:Superfamily: Interferon alpha

Query Match
Best Local Similarity 100.0%; Score 42; DB 2; Length 167;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 LTERKXSP 8
Db 132 LTERKXSP 139

RESULT 4
I56314
Interferon-alpha - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I56314
R:Lund, B.; von Gabain, A.; Edlund, T.; Ny, T.; Lundgren, E.
J. Interferon Res. 5, 229-238, 1985
A:Title: Differential expression of interferon genes in a substrain of Namalwa cells.
A:Reference number: I56314; MUID:8535859; PMID:4008999
A:Accession: I56314
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-176 <RES>
A:Cross-references: UNIPROT:P01571; GB:M71246; NID:9184572; PIDN:AAA52713.1; PID:9184573
C:Genetics:
A:Gene: IFNA
C:Superfamily: Interferon alpha

Query Match
Best Local Similarity 100.0%; Score 42; DB 2; Length 176;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 LTERKXSP 8
Db 141 LTERKXSP 148

RESULT 5
I56313
Interferon alpha 21 - human
C:Species: Homo sapiens (man)
C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I56313
R:Gren, E.; Bezzi, V.M.; Jansone, I.; Tsimanis, A.; Vishevskey, Y.; Apsalons, U.
J. Interferon Res. 4, 609-617, 1984
A:Title: Novel human leukocyte interferon subtype and structural comparison of alpha int
A:Reference number: I56313; MUID:85056523; PMID:6548765
A:Accession: I56313
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-181 <RES>
A:Cross-references: UNIPROT:Q14608; GB:M28586; NID:9184636; PIDN:AAA36041.1; PID:9306912
C:Genetics:
A:Gene: GDB:IFNA21
A:Cross-references: GDB:I36360; OMIM:147584

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A:Map position: 9p22-9p22
C:Superfamily: Interferon alpha

Query Match
Best Local Similarity 100.0%; Score 42; DB 2; Length 181;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 LTERKXSP 8
Db 146 LTERKXSP 153

RESULT 6
IVHUB
Interferon alpha-I-4b precursor - human
N:Alternate names: HuIFN-alpha-I-4b; type I interferon
C:Species: Homo sapiens (man)
C>Date: 28-Dec-1987 #sequence_revision 28-Dec-1987 #text_change 09-Jul-2004
C:Accession: E23753
R:Henco, K.; Brosius, J.; Fujisawa, A.; Fujisawa, J.I.; Haynes, J.R.; Hochstadt, J.; Kov
J. Mol. Biol. 185, 227-260, 1985
A:Title: Structural relationship of human interferon alpha genes and pseudogenes.
A:Reference number: A92916; MUID:86037205; PMID:4057246
A:Accession: E23753
A:Molecule type: DNA
A:Residues: 1-189 <HEN>
A:Cross-references: UNIPROT:P05014; GB:X02955; NID:932656; PIDN:CAA26701.1; PID:9758078
C:Genetics:
A:Gene: GDB:IFN1@
A:Cross-references: GDB:I19328; OMIM:147660
A:Map position: 9p22-9p22
C:Superfamily: Interferon alpha
C:Keywords: antiviral
F.1-23/Domain: signal sequence #status predicted <SIG>
F.24-189/Product: Interferon alpha-I-4b #status predicted <MAT>
F.24-122,52-162/Diulfide bonds: #status predicted

Query Match
Best Local Similarity 100.0%; Score 42; DB 1; Length 189;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 LTERKXSP 8
Db 154 LTERKXSP 161

RESULT 7
IVHUB1
Interferon alpha-1 precursor - human
N:Alternate names: Interferon alpha-13; Interferon alpha-D; Interferon alpha-I-1
C:Species: Homo sapiens (man)
C>Date: 22-May-1981 #sequence_revision 01-Sep-1981 #text_change 09-Jul-2004
C:Accession: C23285; A91467; A93226; A93249; I58213; S43715; S41196; A01826
R:Capon, D.J.; Shepard, H.M.; Goeddel, D.V.
Mol. Cell. Biol. 5, 768-779, 1985
A:Title: Two distinct families of human and bovine interferon-alpha genes are coordinate
A:Reference number: A93070; MUID:85187974; PMID:2985969
A:Accession: C23285
A:Molecule type: DNA
A:Residues: 1-189 <CAP>
A:Cross-references: UNIPROT:P01562
R:Matte, N.; Schwarstein, M.; Streuli, M.; Panem, S.; Nagata, S.; Weissmann, C.
Gene 10, 1-10, 1980
A:Title: The nucleotide sequence of a cloned human leukocyte interferon cDNA.
A:Reference number: A91467; MUID:81005094; PMID:6157600
A:Accession: A91467
A:Molecule type: mRNA
A:Residues: 1-189 <MAN>
A:Cross-references: GB:V00537; NID:932711; PIDN:CAA23798.1; PID:932712
R:Taniguchi, T.; Maneti, N.; Schwarstein, M.; Nagata, S.; Muramatsu, M.; Weissmann, C.
Nature 285, 547-549, 1980
A:Title: Human leukocyte and fibroblast interferons are structurally related.
A:Reference number: A93226; MUID:80254543; PMID:6157095

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A/Accession: A93226
 A/Molecule type: mRNA
 A/Residues: 1-189 <TRAN>
 R/Goeddel, D.V.; Leung, D.W.; Dull, T.J.; Gross, M.; Lawn, R.M.; McCandliss, R.; Seeburg
 Nature 290, 20-26, 1981
 A/Title: The structure of eight distinct cloned human leukocyte interferon cDNAs.
 A/Reference number: A93249; MUID:81148795; PMID:6163083
 A/Accession: A93249
 A/Molecule type: mRNA
 A/Residues: 1-136, 'V', 138-189 <GOE>
 A/Cross-references: GB:V00538; NID:932713; PIDN:CAA2379.1; PID:932714
 A/Note: eight classes of interferon alpha clones were identified; this sequence is deriv
 A/Weber, H.; Weissmann, C.
 Nucleic Acids Res. 11, 5661-5669, 1983
 A/Title: Formation of genes coding for hybrid proteins by recombination between related,
 A/Reference number: 158213; MUID:8329241; PMID:6310510
 A/Accession: 158213
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: DNA
 A/Residues: 24-189 <RES>
 A/Cross-references: GB:M29884; NID:9184583; PIDN:AA52714.1; PID:9386794
 R/Henco, K.; Brosius, J.; Fujisawa, A.; Fujisawa, J.I.; Haynes, J.R.; Hochstadt, J.; Kov
 J. Mol. Biol. 185, 227-260, 1985
 A/Title: Structural relationship of human interferon alpha genes and pseudogenes.
 A/Reference number: A92916; MUID:86037205; PMID:4057246
 A/Accession: S43715
 A/Molecule type: DNA
 A/Residues: 1-189 <HEN>
 A/Cross-references: EMBL:X75934
 R/Rostock, N.
 submitted to the EMBL Data Library, December 1993
 A/Reference number: S41196
 A/Accession: S41196
 A/Molecule type: DNA
 A/Residues: 1-9, 'A', 11-189 <ROS>
 A/Cross-references: EMBL:X75934; NID:9439666; PIDN:CAA53538.1; PID:9439667
 C/Genetics:
 A/Gene: GDB:IFNA1
 A/Cross-references: GDB:136353; OMIM:147660
 A/Map position: 9p22-9p22
 C/Superfamily: interferon alpha
 C/Keywords: antiviral; cytokine; leukocyte
 F:1-23/Domain: signal sequence #status predicted <SIG>
 F:24-189/Product: interferon alpha-1 #status predicted <MAT>
 F:24-122,52-162/Disulfide bonds: #status predicted
 Query Match 100.0%; Score 42; DB 1; Length 189;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LTRKXSP 8
 Db 154 LTRKXSP 161
 RESULT 8
 IVHUA7
 interferon alpha-5 precursor - human
 N/Alternate names: interferon alpha-G
 C/Species: Homo sapiens (man)
 C/Date: 01-Sep-1981 #sequence_revision 29-Jan-1999 #text_change 09-Jul-2004
 C/Accession: S43716; A01833
 R/Henco, K.; Brosius, J.; Fujisawa, A.; Fujisawa, J.I.; Haynes, J.R.; Hochstadt, J.; Kov
 J. Mol. Biol. 185, 227-260, 1985
 A/Title: Structural relationship of human interferon alpha genes and pseudogenes.
 A/Reference number: A92916; MUID:86037205; PMID:4057246
 A/Accession: S43716
 A/Molecule type: DNA
 A/Residues: 1-189 <HEN>
 A/Cross-references: UNIPROT:P01569; EMBL:X02956; NID:932659; PIDN:CAA26702.1; PID:975807
 R/Goeddel, D.V.; Leung, D.W.; Dull, T.J.; Gross, M.; Lawn, R.M.; McCandliss, R.; Seeburg
 Nature 290, 20-26, 1981
 A/Title: The structure of eight distinct cloned human leukocyte interferon cDNAs.

A/Reference number: A93249; MUID:81148795; PMID:6163083
 A/Accession: A01833
 A/Molecule type: mRNA
 A/Residues: 57-189 <GOE>
 A/Cross-references: GB:V00541; GB:J00213; NID:932718; PIDN:CAA23802.1; PID:932719
 A/Note: eight classes of interferon alpha clones were identified; this sequence is derive
 C/Genetics:
 A/Gene: GDB:IFNA5
 A/Cross-references: GDB:136362; OMIM:147565
 A/Map position: 9p22-9p22
 C/Superfamily: interferon alpha
 C/Keywords: antiviral; cytokine; leukocyte
 F:1-23/Domain: signal sequence #status predicted <SIG>
 F:24-189/Product: interferon alpha-5 #status predicted <MAT>
 Query Match 100.0%; Score 42; DB 1; Length 189;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LTRKXSP 8
 Db 154 LTRKXSP 161
 RESULT 9
 IVHUA9
 interferon alpha-17 precursor - human
 N/Alternate names: interferon alpha-9; interferon alpha-I'
 C/Species: Homo sapiens (man)
 C/Date: 01-Sep-1981 #sequence_revision 01-Sep-1981 #text_change 09-Jul-2004
 C/Accession: A01835; A22255; C42753
 R/Lawn, R.M.; Adelman, J.; Dull, T.J.; Gross, M.; Goeddel, D.; Ullrich, A.
 Science 212, 1159-1162, 1981
 A/Title: DNA sequence of two closely linked human leukocyte interferon genes.
 A/Reference number: A94255; MUID:81201124; PMID:6165082
 A/Accession: A01835
 A/Molecule type: DNA
 A/Residues: 1-189 <LAW>
 A/Cross-references: UNIPROT:P01571; GB:J00216; GB:V00532; NID:932633; PIDN:CAA23793.1; P
 R/Mizoguchi, J.; Picha, P.M.; Raj, N.B.K.
 DNA 4, 221-232, 1985
 A/Title: Efficient expression in Escherichia coli of two species of human interferon- α
 A/Reference number: A22255; MUID:85229953; PMID:3891272
 A/Accession: A22255
 A/Molecule type: mRNA
 A/Residues: 1-56, 'H', 58-189 <MIZ>
 A/Cross-references: GB:M1026; NID:9184612; PIDN:AA52725.1; PID:9306908
 R/Zoon, K.C.; Miller, D.; Bekisz, J.; zur Nedden, D.; Enterline, J.C.; Nguyen, N.Y.; Hu,
 J. Biol. Chem. 267, 15210-15216, 1992
 A/Title: Purification and characterization of multiple components of human lymphoblastoid
 A/Reference number: A42753; MUID:92340576; PMID:1634550
 A/Accession: C42753
 A/Molecule type: protein
 A/Residues: 'X', 25-50, 'XX', 53-56 <ZOO>
 C/Genetics:
 A/Gene: GDB:IFNA17
 A/Cross-references: GDB:136358; OMIM:147583
 A/Map position: 9p22-9p22
 C/Superfamily: interferon alpha
 C/Keywords: leukocyte
 F:1-23/Domain: signal sequence #status predicted <SIG>
 F:24-189/Product: interferon alpha-17 #status predicted <MAT>
 F:24-122,52-162/Disulfide bonds: #status predicted
 Query Match 100.0%; Score 42; DB 1; Length 189;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LTRKXSP 8
 Db 154 LTRKXSP 161

```
RESULT 10
IVHUF
interferon alpha-I-F precursor - human
C:Accession: I51970
N:Alternate names: HuIFN-alpha-I-F; Leif F; type I interferon
C:Species: Homo sapiens (man)
C:Date: 01-Sep-1981 #sequence_revision 01-Sep-1981 #text_change 09-Jul-2004
C:Accession: A01832
R:Goodall, D.V.; Leung, D.W.; Dull, T.J.; Gross, M.; Lawn, R.M.; McCandliss, R.; Seeburg
Nature 290, 20-26, 1981
A:Title: The structure of eight distinct cloned human leukocyte interferon cDNAs.
A:Reference number: A93249; MUID:81148795; PMID:6163083
A:Accession: A01832
A:Molecule type: mRNA
A:Residues: 1-189 <GOE>
A:Cross-references: UNIPROT:P01568; GB:V00540; GB:J00212; NID:g327216; PIDN:CAA23801.1; F
A:Note: eight classes of interferon alpha clones were identified; this sequence is deriv
C:Genetics:
A:Gene: GDB:IFN1@
A:Cross-references: GDB:119328; OMIM:147660
A:Map position: 9p22-9p22
C:Superfamily: interferon alpha
C:Keywords: antiviral
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-189/Product: interferon alpha-I-F #status predicted <MAT>
F:24-122,52-162/Disulfide bonds: #status predicted

Query Match          100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEEKYSP 8
Db 154 LEEKYSP 161

RESULT 11
IVHUF
interferon alpha-I-6 precursor - human
N:Alternate names: HuIFN-alpha-I-6; Leif K; type I interferon
C:Species: Homo sapiens (man)
C:Date: 28-Dec-1987 #sequence_revision 28-Dec-1987 #text_change 09-Jul-2004
C:Accession: A23753
R:Henco, K.; Brosius, J.; Fujisawa, A.; Fujisawa, J.I.; Haynes, J.R.; Hochstadt, J.; Kov
J. Mol. Biol. 185, 227-260, 1985
A:Title: Structural relationship of human interferon alpha genes and pseudogenes.
A:Reference number: A92916; MUID:86037205; PMID:4057246
A:Accession: A23753
A:Molecule type: DNA
A:Residues: 1-189 <HEN>
A:Cross-references: UNIPROT:P05013; GB:X02958; NID:g32662; PIDN:CAA26704.1; PID:g758080
C:Genetics:
A:Gene: GDB:IFNA6
A:Cross-references: GDB:136363; OMIM:147566
A:Map position: 9p22-9p22
C:Superfamily: interferon alpha
C:Keywords: antiviral
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-189/Product: interferon alpha-I-6 #status predicted <MAT>
F:24-122,52-162/Disulfide bonds: #status predicted

Query Match          100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEEKYSP 8
Db 154 LEEKYSP 161

RESULT 12
I51970
interferon precursor - human
C:Species: Homo sapiens (man)
```

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C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 16-Jul-1999
C:Accession: I51970
R:Saveliev, V.I.; Zlotchevsky, M.L.; Sorokin, A.V.; Naroditskaya, V.A.; Bolotin, A.P.; Der
Antibiot. Med. Biotechnol. 31, 592-596, 1986
A:Title: Cloning and the determination of the nucleotide sequences in 2 genes of human
A:Reference number: I51970; MUID:87024453; PMID:3767336
A:Accession: I51970
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-189 <RES>
A:Cross-references: GB:M38289; NID:g186407; PIDN:AAA59165.1; PID:g186408
C:Genetics:
A:Gene: IFNA
C:Superfamily: interferon alpha

Query Match          100.0%; Score 42; DB 2; Length 189;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEEKYSP 8
Db 154 LEEKYSP 161

RESULT 13
I84464
interferon-alpha-F - human
C:Species: Homo sapiens (man)
C:Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
C:Accession: I84464; I37583
R:Gren, E.Y.; Berzin, V.M.; Tsimanis, A.Y.; Apsalon, V.R.; Vishnevskii, Y.I.; Yansone, I
A.; Lozha, V.P.; Kavan, V.M.; Efimov, V.A.; Sverdlov, E.D.
Dokl. Biochem. 269, 91-95, 1983
A:Title: A new type of leukocytic interferon.
A:Reference number: I37583
A:Accession: I84464
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-189 <RES>
A:Cross-references: UNIPROT:P01568; GB:M12350; NID:g184598; PIDN:AAA52718.1; PID:g306906
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-189 <RES>
A:Cross-references: EMBL:X00145; NID:g32724; PIDN:CAA24980.1; PID:g32725
C:Genetics:
A:Gene: IFNA
C:Superfamily: interferon alpha

Query Match          100.0%; Score 42; DB 2; Length 189;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LEEKYSP 8
Db 154 LEEKYSP 161

RESULT 14
I53102
interferon-alpha-91 - human
C:Species: Homo sapiens (man)
C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I53102
R:Cohen, S.; Velan, B.; Grosfeld, H.; Shalita, Z.; Leitner, M.; Shaffer, A.
Dev. Biol. Stand. 60, 111-122, 1985
A:Title: Cloning, expression and biological activity of a new variant of human interferon
A:Reference number: I53102; MUID:86005847; PMID:2995168
A:Accession: I53102
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-189 <RES>
A:Cross-references: UNIPROT:P01567; GB:M34913; NID:g184614; PIDN:AAA36039.1; PID:g184615
```

C:Superfamily: interferon alpha

Query Match 100.0%; Score 42; DB 2; Length 189;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTEKKYSP 8
 |||||
 Db 154 LTEKKYSP 161

RESULT 15

152347

Interferon alpha-M1 precursor - human

C:Species: Homo sapiens (man)

C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004

C:Accession: 152347

R:Linnae, A.W.; Beltharz, M.W.; McMullen, G.L.; Macreadie, I.G.; Murphy, M.; Nisbet, I.

Biochem. Int. 8, 725-732, 1984

A:Title: Nucleotide sequence and expression in E. coli of a human interferon-alpha gene

A:Reference number: 152347; MUID:84307815; PMID:6089830

A:Accession: 152347

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-189 <RES>

C:Cross-references: UNIPROT:P05014; GB:M27318; NID:G184617; PIDN:AAAS2726.1; PID:G306905

C:Gene: IFNA

C:Superfamily: interferon alpha

Query Match 100.0%; Score 42; DB 2; Length 189;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTEKKYSP 8
 |||||
 Db 154 LTEKKYSP 161

Search completed: May 19, 2005, 12:55:51
 Job time : 40 secs

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OM protein - protein search, using sw model

Run on: May 19, 2005, 12:37:26 ; Search time 175 Seconds
(without alignments)
23.409 Million cell updates/sec

Title: US-09-424-080B-1
Perfect score: 42
Sequence: 1 LTKKXSP 8

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database: UniProt 03: *
1: uniprot_sprot: *
2: uniprot_trembl: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	73	2	OBHYG5
2	42	100.0	73	2	OBHYG5
3	42	100.0	166	2	OBWZ68
4	42	100.0	166	2	Q9UMW3
5	42	100.0	181	2	Q14608
6	42	100.0	189	1	INAI_HUMAN
7	42	100.0	189	1	INAI_HUMAN
8	42	100.0	189	1	INAI_HUMAN
9	42	100.0	189	1	INAI_HUMAN
10	42	100.0	189	1	INAI_HUMAN
11	42	100.0	189	1	INAI_HUMAN
12	42	100.0	189	1	INAI_HUMAN
13	38	90.5	123	2	OBRIJ0
14	38	90.5	1104	2	OBRIJ0
15	36	85.7	73	2	OBHYG2
16	36	85.7	73	2	OBHYG9
17	36	85.7	108	2	Q9N1U6
18	36	85.7	154	2	Q6QNB6
19	36	85.7	166	2	Q6QNB6
20	36	85.7	170	2	Q29114
21	36	85.7	170	2	Q29115
22	36	85.7	184	1	INAI_HORSE
23	36	85.7	184	1	INAI_HORSE
24	36	85.7	184	1	INAI_HORSE
25	36	85.7	184	1	INAI_HORSE
26	36	85.7	188	1	INAI_HUMAN
27	36	85.7	188	2	Q66315
28	36	85.7	188	2	Q66316
29	36	85.7	189	1	INAI_HUMAN
30	36	85.7	189	1	INAI_HUMAN
31	36	85.7	189	2	Q6M113

32	36	85.7	189	2	Q6M114	Q6M114 felis silve
33	36	85.7	189	2	Q6M115	Q6M115 felis silve
34	36	85.7	189	2	Q6M117	Q6M117 felis silve
35	36	85.7	189	2	Q6M117	Q6M117 felis silve
36	36	85.7	189	2	Q6M118	Q6M118 felis silve
37	36	85.7	189	2	Q6M119	Q6M119 felis silve
38	36	85.7	189	2	Q6M120	Q6M120 felis silve
39	36	85.7	194	1	INA_FELCA	P35849 felis silve
40	36	85.7	194	2	Q6M116	Q6M116 felis silve
41	36	85.7	194	2	Q6M117	Q6M117 felis silve
42	36	85.7	417	2	Q96N00	Q96N00 homo sapien
43	36	85.7	730	2	Q96N05	Q96N05 arabisopsis
44	36	85.7	831	2	Q96N03	Q96N03 homo sapien
45	36	85.7	831	2	Q71QF8	Q71QF8 homo sapien

ALIGNMENTS

RESULT 1									
OBHYG5	PRELIMINARY;	PRT;	73 AA.						
ID	OBHYG5								
AC	OBHYG5;								
DT	01-MAR-2003 (TREMBlrel. 23, Created)								
DT	01-MAR-2003 (TREMBlrel. 23, Last sequence update)								
DT	01-MAR-2004 (TREMBlrel. 26, Last annotation update)								
DE	Type I interferon (Fragment)								
OS	Macropus eugenii (Tamar wallaby)								
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;								
OC	Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus.								
OX	NCBI_Taxid=9315;								
RN	[1]								
RP	SEQUENCE FROM N.A.								
RX	MEDLINE=22583464; Pubmed=12697149; DOI=10.1016/S1043-4666(03)00029-2;								
RA	Harrison G.A., Young L.J., Watson C.M., Miska K.B., Miller R.D.,								
RA	Deane E.M.;								
RT	"A survey of type I interferons from a marsupial and monotreme:								
RT	implications for the evolution of the type I interferon gene family in								
RT	mammals."								
RL	Cytokine 21:105-119(2003).								
CC	- SIMILARITY: Belongs to the alpha/beta interferon family.								
DR	EMBL; AF522901; A014976.1; -								
DR	HSSP; P01563; ITF.								
DR	GO; GO:0005576; C:extracellular; IEA.								
DR	GO; GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .; IEA.								
DR	GO; GO:0006952; P:defense response; IEA.								
DR	InterPro; IPR009079; 4_helix_cytokine.								
DR	InterPro; IPR000471; Interferon_abd.								
DR	Pfam; PF00143; Interferon; 1.								
DR	ProDom; PD000550; Interferon_abd; 1.								
DR	SMART; SM00076; IFabd; 1.								
KW	Antiviral; Cytokine.								
FT	NON_TER	1	73						
FT	NON_TER	1	73						
SQ	SEQUENCE	73 AA;	8543 MW;	644EC138E1ACF36C CRC64;					
Query Match									
Best Local Similarity		100.0%;		Score 42; DB 2; Length 73;					
Matches		8; Conservative		0; Mismatches		0; Indels		0; Gaps	
Qy	1 LTKKXSP 8								
Db	66 LTKKXSP 73								
RESULT 2									
OBHYG8	PRELIMINARY;	PRT;	73 AA.						
ID	OBHYG8								
AC	OBHYG8;								
DT	01-MAR-2003 (TREMBlrel. 23, Created)								
DT	01-MAR-2003 (TREMBlrel. 23, Last sequence update)								
DT	01-MAR-2004 (TREMBlrel. 26, Last annotation update)								
DE	Type I interferon (Fragment)								

CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
 DR EMBL: M28586; AAA36041.1; -.
 DR PIR: E25843; E25843.
 DR PIR: I56313; I56313.
 DR HSSP: P01563; IITF.
 DR GO: GO:0005576; C:extracellular; IEA.
 DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .); IEA.
 DR GO: GO:0006952; P:defense response; IEA.
 DR InterPro: IPR009079; 4 helix cytokine.
 DR InterPro: IPR000471; Interferon_abd.
 DR Pfam: PF00143; Interferon_1.
 DR PRINTS: PR00266; INTERFERONAB.
 DR ProDom: PD000550; Interferon_abd; 1.
 DR SMART: SM00076; Irbid; 1.
 DR PROSITE: PS00252; INTERFERON_A_B_D; 1.
 KW Antiviral; Cytokine.
 SQ SEQUENCE 181 AA; 20878 MW; 3DBA5120764EBAABC CRG4;
 Query Match 100.0%; Score 42; DB 2; Length 181;
 Best Local Similarity 100.0%; Pred. No. 2.2;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LTRKXSP 8
 DB 146 LTRKXSP 153
 RESULT 6
 ID INAA HUMAN STANDARD; PRT; 189 AA.
 AC P01562;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Interferon alpha-1/13 precursor (Interferon alpha-D) (leif D).
 GN Name=IFNA1;
 GN and
 GN Name=IFNA13;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=81005094; PubMed=6157600; DOI=10.1016/0378-1119(80)90137-7;
 RA Mantel N., Schwartzstein M., Streuli M., Panem S., Nagata S.,
 RA Weissmann C.;
 RA "The nucleotide sequence of a cloned human leukocyte interferon
 RT cDNA.";
 RL Gene 10:1-10 (1980).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=80254543; PubMed=6157095;
 RA Taniguchi T., Mantel N., Schwartzstein M., Nagata S., Muramatsu M.,
 RA Weissmann C.;
 RA "Human leukocyte and fibroblast interferons are structurally
 RT related.";
 RL Nature 285:547-549 (1980).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=81148795; PubMed=6163083;
 RA Goeddel D.V., Leung D.W., Dull T.J., Gross M., Lawn R.M.,
 RA McCandlish R., Seeburg P.H., Ullrich A., Yelverton E., Gray P.W.;
 RA "The structure of eight distinct cloned human leukocyte interferon
 RT cDNAs.";
 RL Nature 290:20-26 (1981).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=85003592; PubMed=6479148;
 RA Todokoro K., Kioussis D., Weissmann C.;
 RA "Two non-allelic human interferon alpha genes with identical coding
 RT regions.";
 RL EMBO J. 3:1809-1812 (1984).

RN [5]
 RP SEQUENCE OF 24-58.
 RX MEDLINE=98087498; PubMed=9425112;
 RA Nyman T.A., Toeloe H., Parkkinen J., Kalkkinen N.;
 RT "Identification of nine interferon-alpha subtypes produced by Sendai
 RT virus-induced human peripheral blood leucocytes.";
 RL Biochem. J. 329:295-302 (1998).
 RN [6]
 RP POLYMORPHISM.
 RX MEDLINE=20485144; PubMed=11032395; DOI=10.1089/10799900050150121;
 RA Hussein M., Ni D., Gill D., Liao M.-J.,
 RT "IFN-alpha-1a gene is the major variant in the North American
 RT population.";
 RL J. Interferon Cytokine Res. 20:763-768 (2000).
 CC -1- FUNCTION: Produced by macrophages, IFN-alpha have antiviral
 CC activities. Interferon stimulates the production of two enzymes: a
 CC protein kinase and an oligoadenylate synthetase.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- POLYMORPHISM: Two forms exist; alpha-1a (shown here) and alpha-1b.
 CC -1- MISCELLANEOUS: Interferons alpha-1 and alpha-1j have identical
 CC protein sequences.
 CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL: J00210; AAB59403.1; -
 DR EMBL: V00537; CAA23798.1; -
 DR EMBL: V00538; CAA23799.1; -
 DR EMBL: X00803; CAA25381.1; -
 DR PIR: C23285; IVH0A1.
 DR HSSP: P01563; IITF.
 DR Genew: HGNC:5417; IFNA1.
 DR Genew: HGNC:5419; IFNA13.
 DR MIM: 147660; -
 DR MIM: 147578; -
 DR GO: GO:0005132; F:interferon-alpha/beta receptor binding; TAS.
 DR InterPro: IPR009079; 4 helix cytokine.
 DR InterPro: IPR000471; Interferon_abd.
 DR Pfam: PF00143; Interferon_1.
 DR PRINTS: PR00266; INTERFERONAB.
 DR ProDom: PD000550; Interferon_abd; 1.
 DR PROSITE: PS00252; INTERFERON_A_B_D; 1.
 KW Antiviral; Cytokine; Direct protein sequencing; Multigene family;
 KW Polymorphism; Signal.
 FT SIGNAL 1 23
 FT CHAIN 24 189 Interferon alpha-1/13.
 FT DISULFID 24 122 By similarity.
 FT DISULFID 52 162 By similarity.
 FT VARIANT 137 137 A -> V (in alpha-1b; dbSNP:2230050).
 FT /FTID=VAR_013000.
 SQ SEQUENCE 189 AA; 21725 MW; F32F9CB969606B69 CRG4;
 Query Match 100.0%; Score 42; DB 1; Length 189;
 Best Local Similarity 100.0%; Pred. No. 2.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LTRKXSP 8
 DB 154 LTRKXSP 161
 RESULT 7
 ID INAA HUMAN STANDARD; PRT; 189 AA.
 AC P05014; P13358;
 DT 13-AUG-1987 (Rel. 05, Created)
 DT 13-AUG-1987 (Rel. 05, Last sequence update)

DT 05-JUN-2004 (Rel. 44, Last annotation update)
DE Interferon alpha-4 precursor (Interferon alpha-4B) (Interferon alpha-
DE MI) (Interferon alpha-76).
CN Name=IFNA4;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86037205; PubMed=4057246;
RA Henko K., Brosius J., Fujisawa A., Fujisawa J.-I., Haynes J.R.,
RA Hochstadt J., Kovacic T., Pasek M., Schamboeck A., Schmid J.,
RA Tokokoro K., Maechli M., Nagata S., Weissmann C.;
RT "Structural relationship of human interferon alpha genes and
RT pseudogenes.";
RL J. Mol. Biol. 185:227-260(1985).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=84307815; PubMed=6089830;
RA Linane A.W., Bellhartz M.W., McMullen G.L., Macreadie I.G., Murphy M.,
RA Nisbet I.T., Novitski C.E., Woodrow G.C.;
RT "Nucleotide sequence and expression in E. coli of a human interferon-
RT alpha gene selected from a genomic library using synthetic
RT oligonucleotides.";
RL Biochem. Int. 8:725-732(1984).
RN [3]
RP SEQUENCE OF 24-56.
RX MEDLINE=98087498; PubMed=9425112;
RA Nyman T.A., Toeloe H., Parkkinen J., Kalkkinen N.,
RT "Identification of nine interferon-alpha subtypes produced by Sendai
RT virus-induced human peripheral blood leucocytes.";
RL Biochem. J. 329:295-302(1998).
RN [4]
RP POLYMORPHISM.
RX MEDLINE=97474410; PubMed=9335434;
RA Hussain M., Gill D.S., Liao M.-J.;
RT "Both variant forms of interferon-alpha4 gene (IFNA4a and IFNA4b) are
RT present in the human population.";
RL J. Interferon Cytokine Res. 17:558-566(1997).
CC -1- FUNCTION: Produced by macrophages, IFN-alpha have antiviral
CC activities. Interferon stimulates the production of two enzymes: a
CC protein kinase and an oligoadenylate synthetase.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- POLYMORPHISM: Two forms exist; alpha-4a and alpha-4b (shown here).
CC They seem to be equally abundant.
CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
CC -----
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CC -----
DR EMBL; X02955; CAA26701.1; -;
DR EMBL; M27318; AAS52726.1; -;
DR PIR; E23753; IYHU4B.
DR PIR; I52347; I52347.
DR HSSP; P01563; IITF.
DR Genew; HGNC:5425; IFNA4.
DR MIM; 147564; -;
DR GO; GO:0005132; P:interferon-alpha/beta receptor binding; TAS.
DR GO; GO:0009615; P:response to virus; TAS.
DR InterPro; IPR009079; 4_helix_cytokine.
DR InterPro; IPR000471; Interferon_abd.
DR Pfam; PF00143; Interferon; 1.
DR PRINTS; PR00266; INTERFERONAB.
DR PRODOM; PD000550; Interferon abd; 1.
DR PROSITE; PS00252; INTERFERON_A_B_D; 1.
KW Antiviral; Cytokine; Direct protein sequencing; Multigene family;
KW Polymorphism; Signal.

FT SIGNAL 1 23
FT CHAIN 24 189 Interferon alpha-4.
FT FT DISULFID 24 122 By similarity.
FT FT DISULFID 52 162 By similarity.
FT FT VARIANT 74 74 T->A (in alpha-4A).
FT FT VARIANT 137 137 /Frid=VAR_013002.
FT FT VARIANT 137 137 V->E (in alpha-4A).
FT FT /Frid=VAR_013003.
SQ SEQUENCE 189 AA; 21808 MW; 4198F9C6E2AE80C CRC64;
Query Match 100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 LTERKYSF 8
Db .154 LTERKYSF 161
RESULT 8
ID INAS HUMAN STANDARD; PRT; 189 AA.
AC P01569;
DT 21-JUN-1986 (Rel. 01, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Interferon alpha-5 precursor (Interferon alpha-G) (LeIF G) (Interferon
DE alpha-61).
GN Name=IFNA5;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86037205; PubMed=4057246;
RA Henko K., Brosius J., Fujisawa A., Fujisawa J.-I., Haynes J.R.,
RA Hochstadt J., Kovacic T., Pasek M., Schamboeck A., Schmid J.,
RA Tokokoro K., Maechli M., Nagata S., Weissmann C.;
RT "Structural relationship of human interferon alpha genes and
RT pseudogenes.";
RL J. Mol. Biol. 185:227-260(1985).
RN [2]
RP SEQUENCE OF 57-189 FROM N.A.
RC TISSUE=Splice;
RX MEDLINE=81148795; PubMed=6163083;
RA Goeddel D.V., Leung D.W., Dull T.J., Gross M., Lawn R.M.,
RA McCandless R., Seeburg P.H., Ullrich A., Yelverton E., Gray P.W.;
RT "The structure of eight distinct cloned human leukocyte interferon
RT cDNAs.";
RL Nature 290:20-26(1981).
RN [3]
RP SEQUENCE OF 22-36.
RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Henzel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites.";
RL Protein Sci. 13:2819-2824(2004).
CC -1- FUNCTION: Produced by macrophages, IFN-alpha have antiviral
CC activities. Interferon stimulates the production of two enzymes: a
CC protein kinase and an oligoadenylate synthetase.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
CC -----
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CC -----
DR EMBL; X02956; CAA26702.1; -;


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DR EMBL: V00541; CAA23802.1; -.
DR PIR: S43716; IVHUA7.
DR HSSP: P01563; IITP.
DR Genew: HGNC:5426; IFNA5.
DR MIM: 147565; -.
DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .; TAS.
DR InterPro: IPR0009079; 4 helix cytokine.
DR InterPro: IPR000471; Interferon_abd.
DR Pfam: PF00143; Interferon_1.
DR PRINTS: PR00266; INTERFERONAB.
DR PRODOM: PD000550; Interferon_abd; 1.
DR PROSITE: PS00252; INTERFERON_A_B_D; 1.
KW Antiviral; Cytokine; Direct protein sequencing; Multigene family;
KW Signal.
FT SIGNAL 1 21
FT CHAIN 22 189 Interferon alpha-5.
FT DISULFID 24 122 By similarity.
FT DISULFID 52 162 By similarity.
SQ SEQUENCE 189 AA; 21942 MW; C60592PE2E78043 CRC64;

Query Match 100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
DB 154 LTKKXSP 161

RESULT 9
INAG_HUMAN STANDARD; PRT; 189 AA.
AC P05013;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Interferon alpha-6 precursor (Interferon alpha-K) (leif K) (Interferon
alpha-54).
GN Name=IFNA6;
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=6037205; Pubmed=4057246;
RA Henco K., Brosius J., Fujisawa A., Fujisawa J.-I., Haynes J.R.,
RA Hochstadt K., Kovacic T., Pasek M., Schamboeck A., Schmid J.,
RA Todoro K., Waelchli M., Nagata S., Weissmann C.;
RT "Structural relationship of human interferon alpha genes and
pseudogenes.";
RL J. Mol. Biol. 185:227-260(1985).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22368257; Pubmed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Pelting E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Helel F.,
RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udell T.B., Toehyuk S., Carninci P., Prange C.J.,
RA Raha S.S., Loughlino N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richardson S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pehley J., Halton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmitt J., Myers R.M.,
RA Buttrifield Y.S.N., Krzywinski M.I., Skalska U., Small D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Maira M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human

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RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [3]
RP SEQUENCE OF 21-35.
RX Pubmed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Henzel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
verified cleavage sites.";
RL Protein Sci. 13:2819-2824(2004).
CC -1- FUNCTION: Produced by macrophages, IFN-alpha have antiviral
CC activities. Interferon stimulates the production of two enzymes: a
CC protein kinase and an oligoadenylate synthetase.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
CC -----
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CC -----
DR EMBL: X02958; CAA26704.1; -.
DR PIR: A23753; IVHUI6.
DR HSSP: P01563; IITP.
DR Genew: HGNC:5427; IFNA6.
DR MIM: 147566; -.
DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .; NAS.
DR GO: GO:0009615; P:response to virus; NAS.
DR InterPro: IPR009079; 4 helix cytokine.
DR InterPro: IPR000471; Interferon_abd.
DR Pfam: PF00143; Interferon_1.
DR PRINTS: PR00266; INTERFERONAB.
DR PRODOM: PD000550; Interferon_abd; 1.
DR PROSITE: PS00252; INTERFERON_A_B_D; 1.
KW Antiviral; Cytokine; Direct protein sequencing; Multigene family;
KW Signal.
FT SIGNAL 1 20
FT CHAIN 21 189 Interferon alpha-6.
FT DISULFID 24 122 By similarity.
FT DISULFID 52 162 By similarity.
SQ SEQUENCE 189 AA; 22140 MW; 8C7F3F90F12C562E CRC64;

Query Match 100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTKKXSP 8
DB 154 LTKKXSP 161

RESULT 10
INAG_HUMAN STANDARD; PRT; 189 AA.
AC P01571; Q14639;
DT 21-JUL-1986 (Rel. 01, Created)
DT 01-OCT-1994 (Rel. 30, Last sequence update)
DT 05-JUN-2004 (Rel. 44, Last annotation update)
DE Interferon alpha-17 precursor (Interferon alpha-I') (Interferon alpha-
T) (Interferon alpha-88).
GN Name=IFNA17;
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=61201124; Pubmed=615082;
RA Lawn R.M., Adelman J., Dull T.J., Gross M., Goeddel D.V., Ullrich A.;
RT "DNA sequence of two closely linked human leukocyte interferon

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RN genes."
RT Science 212:1159-1162(1981).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=85229553; PubMed=3891272;
RA Mitoquchi J., Pittha P.M., Raj N.B.K.;
RT "Efficient expression in Escherichia coli of two species of human
interferon-alpha and their hybrid molecules."
RL DNA 4:221-232(1985).
RN [3]
RP SEQUENCE OF 14-189 FROM N.A.
RX MEDLINE=85235859; PubMed=4008999;
RA Lund B., von Gabain A., Edlund T., Ny T., Lundgren E.;
RT "Differential expression of interferon genes in a substrain of Namalwa
cells."
RL J. Interferon Res. 5:229-238(1985).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=87024453; PubMed=3767336;
RA Savelliev V.I., Zlotchevsky M.L., Sorokin A.V., Naroditskaya V.A.,
RA Bolotin A.P., Demjanova N.G., Kozlov Y.I., Neznanov N.S.;
RA Gazaryan K.G., Monastyrskaya G.S., Sverdlov E.D.;
RT "Cloning and the determination of the nucleotide sequences in 2 genes
of human leukocyte interferons."
RL Antibiot. Med. Biotechnol. 31:592-596(1986).
RN [5]
RP SEQUENCE OF 24-58.
RX MEDLINE=98087498; PubMed=9425112;
RA Nymen T.A., Toeloe H., Parkkinen J., Kalkkinen N.;
RT "Identification of nine interferon-alpha subtypes produced by Sendai
virus-induced human peripheral blood leucocytes."
RL Biochem. J. 329:295-302(1998).
RN [6]
RP VARIANT ARG-184.
RX MEDLINE=98376207; PubMed=9712362;
RA Hussain M., Tan T., Ni D., Gill D.S., Liao M.-J.;
RT "A new allele of interferon-alpha17 gene encoding IFN-alpha17b is the
major variant in human population."
RL J. Interferon Cytokine Res. 18:469-477(1998).
RN [7]
RP FUNCTION: Produced by macrophages, IFN-alpha have antiviral
activities. Interferon stimulates the production of two enzymes: a
protein kinase and an oligoadenylate synthetase.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
CC -----
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CC -----
CC EMBL/ M1026; AAA52725.1; -
CC EMBL/ V00532; CAA23793.1; -
CC EMBL/ M38289; AAA59165.1; -
CC EMBL/ M71246; AAA52713.1; -
CC PIR; A01835; IYHU9.
CC PIR; I56314; I56314.
CC HSSP; P01563; IITF.
CC DR Genew; HGNC:5422; IFNA17.
CC MIM; 147583; -
CC GO; GO:0005132; F:interferon-alpha/beta receptor binding; TAS.
CC GO; GO:0009615; P:response to virus; TAS.
CC InterPro; IPR009079; 4_helix_cytokine.
CC InterPro; IPR000471; Interferon_abd.
CC Pfam; PF00143; Interferon_1.
CC PRINTS; PR00266; INTERFERONAB.
CC Prodom; PD000550; Interferon_abd_1.
CC PROSITE; PS00253; INTERFERON_A_B_D; 1.
CC Antiviral; Cytokine; Direct protein sequencing; Multigene family;
KW Polymorphism; Signal.
PT SIGNAL
1 23

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FT CHAIN 24 189 Interferon alpha-17.
FT DISULFID 24 122 By similarity.
FT DISULFID 52 162 By similarity.
FT VARIANT 184 184 I -> R.
FT CONFLICT 57 57 /FTID=VAR 013020.
FT CONFLICT 78 78 H -> P (in Ref. 1).
SQ SEQUENCE 189 AA; 21728 MW; 0448EAEAB9D7FC32 CRC64;
Query Match 100.0%; Score 42; DB 1; Length 189;
Best Local Similarity 100.0%; Pred. No. 2.3; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0;
Cy 1 LTERKXSP 8
Db 154 LTERKXSP 161
RESULT 11
INAK HUMAN STANDARD; PRT; 189 AA.
ID INAK HUMAN
AC P01568;
DT 21-JUL-1986 (Rel. 01, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Interferon alpha-21 precursor (interferon alpha-F) (LeIF F).
GN Name=IFNA21;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=81148795; PubMed=6163083;
RA Goeddel D.V., Leung D.W., Dull T.J., Gross M., Lawn R.M.,
RA McCandliss R., Seeburg P.H., Ullrich A., Yelverton E., Gray P.W.;
RT "The structure of eight distinct cloned human leukocyte interferon
cDNAs."
RL Nature 290:20-26(1981).
RN [2]
RP SEQUENCE FROM N.A.
RX Gren E.Y., Berzin V.M., Tsimanis A.Y., Apsalon U.R., Vishnevskii Y.I.,
RA Yansone I.V., Dishler A.V., Pudova N.V., Smorodintsev A.A.,
RA Iovlev V.I., Stepanov A.N., Feldman G.Y., Melniks Y.A., Lozha V.P.,
RA Kavan V.M., Efimov V.A., Sverdlov E.D.;
RT "A new type of leukocytic interferon."
RL Dokl. Biochem. 269:91-95(1983).
RN [3]
RP SEQUENCE OF 24-58.
RX MEDLINE=98087498; PubMed=9425112;
RA Nymen T.A., Toeloe H., Parkkinen J., Kalkkinen N.;
RT "Identification of nine interferon-alpha subtypes produced by Sendai
virus-induced human peripheral blood leucocytes."
RL Biochem. J. 329:295-302(1998).
RN [4]
RP ABSENCE OF POLYMORPHISM.
RX MEDLINE=97067358; PubMed=8910771;
RA Hussain M., Gill D.S., Liao M.-J.;
RT "Identification of interferon-alpha 7, -alpha 14, and -alpha 21
variants in the genome of a large human population."
RL J. Interferon Cytokine Res. 16:853-859(1996).
RN [5]
RP FUNCTION: Produced by macrophages, IFN-alpha have antiviral
activities. Interferon stimulates the production of two enzymes: a
protein kinase and an oligoadenylate synthetase.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.
CC -----
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or send an email to license@eb-sib.ch).

CC -----

DR EMBL: M12350; AAA53718.1; --

DR EMBL: V00540; CAA23801.1; --

DR EMBL: X00145; CAA24980.1; --

DR PIR: A01832; ITHUP.

DR PIR: I84464; I84464.

DR HSSP: P01563; IITF.

DR Genew: HNC5424; IFNA21.

DR MIM: 147584; --

DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .; TAS.

DR Interpro: IPR009079; 4_helix_cytokine.

DR Interpro: IPR000471; Interferon_abd.

DR Pfam: PF00143; Interferon_1.

DR PRINTS: PR00266; INTERFERONAB.

DR PRODOM: PD000550; Interferon_abd. 1.

DR PROSITE: PS00252; INTERFERON_A_B_D; 1.

DR KEGG: K04494; Cytokine; Direct protein sequencing; Multigene family;

DR Signal.

FT SIGNAL 1 23

FT CHAIN 24 189 Interferon alpha-21.

FT DISULFID 24 122 By similarity.

FT DISULFID 52 162 By similarity.

FT CONFLICT 119 119 L -> M (in Ref. 1).

SO SEQUENCE 189 AA; 21741 MW; F0B6C9C392905802 CRC64;

Query Match 100.0%; Score 42; DB 1; Length 189;

Best Local Similarity 100.0%; Pred. No. 2.3;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTERKXSP 8

Db 154 LTERKXSP 161

RESULT 12

Q14605 PRELIMINARY; PRT; 189 AA.

AC 01-NOV-1996 (TEMBLrel. 01, Created)

DT 01-NOV-1996 (TEMBLrel. 01, Last sequence update)

DT 25-OCT-2004 (TEMBLrel. 28, Last annotation update)

DE Interferon-alpha 13 precursor.

GN Name=IFNA13;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_Taxid=9606;

ON [1]

RP SEQUENCE FROM N.A.

RA MEDLINE=6037205; Pubmed=4057246;

RA Henco K., Brosius J., Fujisawa A., Fujisawa J.I., Haynes J.R.,

RA Hochstadt J., Kovacic T., Pasek M., Schambeck A., Schmid J.,

RA Todokoro K., Waelechi M., Nagata S., Weissmann C.;

RT "Structural relationship of human interferon alpha genes and

RT pseudogenes";

RT J. Mol. Biol. 185:227-260(1995).

RU [2]

RN SEQUENCE FROM N.A.

RA Rostoke N.;

RL Submitted (DEC-1993) to the EMBL/GenBank/DBJ databases.

RN [3]

RP SEQUENCE FROM N.A.

RC TISSUE=PCR rescued clones;

RA MEDLINE=23388257; Pubmed=12477932; DOI=10.1073/pnas.242603899;

RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Bueltow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heien F.,

RA Diatchenko L., Maruska K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loguellianno N.A., Peters G.J., Abramson R.D., Mullaly S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Fahney J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Krzywnicki M.I., Skalek U., Smallos D.E., Schnerch A., Schein J.E.,

RA Jones S.J., Marra M.A.;

RT "Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences";

RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

RN [4]

RP SEQUENCE FROM N.A.

RC TISSUE=PCR rescued clones;

RA Strauberg R.;

RL Submitted (APR-2004) to the EMBL/GenBank/DBJ databases.

CC -1- SIMILARITY: Belongs to the alpha/beta interferon family.

DR EMBL: X75934; CAA53538.1; --

DR EMBL: BC069427; AAH69427.1; --

DR PIR: H42753; H42753.

DR HSSP: P01563; IITF.

DR GO: GO:0005576; C:extracellular; IEA.

DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain. . .; IEA.

DR GO: GO:0006952; P:defense response; IEA.

DR Interpro: IPR009079; 4_helix_cytokine.

DR Interpro: IPR000471; Interferon_abd.

DR Pfam: PF00143; Interferon_1.

DR PRINTS: PR00266; INTERFERONAB.

DR PRODOM: PD000550; Interferon_abd. 1.

DR SMART: SM00076; IFABD; 1.

DR PROSITE: PS00252; INTERFERON_A_B_D; 1.

DR KEGG: K04494; Cytokine; Signal.

FT SIGNAL 1 23

FT CHAIN 24 189 Potential.

FT SIGNAL 24 189 Potential.

SO SEQUENCE 189 AA; 21697 MW; 442F8B754D8398 CRC64;

Query Match 100.0%; Score 42; DB 2; Length 189;

Best Local Similarity 100.0%; Pred. No. 2.3;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTERKXSP 8

Db 154 LTERKXSP 161

RESULT 13

Q08310 PRELIMINARY; PRT; 123 AA.

AC 08310;

DT 01-JUN-2002 (TEMBLrel. 21, Created)

DT 01-JUN-2002 (TEMBLrel. 21, Last sequence update)

DT 01-MAR-2004 (TEMBLrel. 26, Last annotation update)

DE CNA sequence BC025076.

GN Name=BC025076;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_Taxid=10090;

ON [1]

RP SEQUENCE FROM N.A.

RC STRAIN=FVB/N. TISSUE=Mammary tumor;

RA MEDLINE=22388257; Pubmed=12477932; DOI=10.1073/pnas.242603899;

RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Bueltow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heien F.,

RA Diatchenko L., Maruska K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loguellianno N.A., Peters G.J., Abramson R.D., Mullaly S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmitt J., Myers R.M., Butlerfield Y.S.,
 RA Krzywinski M.I., Skalski U., Smallos D.E., Scherzer A., Schein J.E.,
 RA Jones S.J., Maira M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Mammary tumor;
 RA Strausberg R.;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC025076; AAH25076.1; -;
 DR MGI: 2448491; BC025076;
 SQ SEQUENCE 123 AA; 13922 MW; 3FDD29CA8FB506D CRC64;

Query Match 90.5%; Score 38; DB 2; Length 123;
 Best Local Similarity 87.5%; Pred. No. 9.8;
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
 DB 33 LTERKXSP 40

RESULT 14
 OR1282 PRELIMINARY; PRT; 1104 AA.
 ID OR1282;
 AC OR1282;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Hypothetical protein PF1150W.
 GN Name=PF1150W;
 OS Plasmodium falciparum (isolate 3D7).
 OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
 OX NCBI_TaxID=56329;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22255708; PubMed=12368667; DOI=10.1038/nature01095;
 RA Hall N., Pain A., Berriman M., Churcher C., Harris B., Harris D.,
 RA Mungall K., Bowman S., Atkin R., Baker S., Barron A., Brooks K.,
 RA Buckee C.O., Burrows C., Cherevach I., Chillingworth C., Corton C.,
 RA Chillingworth T., Christodoulou Z., Clark L., Clark R., Corton C.,
 RA Cronin A., Davies R., Davis P., Dear P., Dearden F., Deggett J.,
 RA Felwell T., Goble A., Goodhead I., Gilliam R., Hamlin N., Hance Z.,
 RA Harper D., Hauser H., Hornsby T., Holroyd S., Horrocks P.,
 RA Humphrey S., Jagsels K., James K.D., Johnson D., Kethornou A.,
 RA Knights A., Konfortov B., Kyes S., Lake N., Lawson D., Lennard N.,
 RA Line A., Maddison M., McLean J., Mooney P., Moule S., Murphy L.,
 RA Oliver K., Ormond D., Price C., Quail M.A., Rabinowitz E.,
 RA Rajandream M.A., Rutter S., Rutherford K.M., Sanders M., Simmonds M.,
 RA Seeger K., Sharp S., Smith R., Squares R., Squares S., Stevens K.,
 RA Taylor K., Tiley A., Unwin L., Whitehead S., Woodward J.,
 RA Sulston J.E., Craig A., Newbold C., Barrell B.G.;
 RT "Sequence of Plasmodium falciparum chromosomes 1, 3-9 and 13.";
 RL Nature 419:527-531 (2002).
 DR EMBL: AL929357; CAD51916.1; -;
 KM Hypothetical protein.
 SQ SEQUENCE 1104 AA; 135820 MW; DPA9B79DB779E707 CRC64;

Query Match 90.5%; Score 38; DB 2; Length 1104;
 Best Local Similarity 87.5%; Pred. No. 95;
 Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
 DB 183 LTERKXSP 190

RESULT 15
 ORHYG2 PRELIMINARY; PRT; 73 AA.
 ID ORHYG2;
 AC ORHYG2;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Type I interferon (Fragment).
 OS Macropus eugenii (Tamar wallaby).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Metatheria; Diprotodontia; Macropodidae; Macropus.
 OX NCBI_TaxID=9315;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=22583464; PubMed=12697149; DOI=10.1016/S1043-4666(03)00029-2;
 RA Harrison G.A., Young L.U., Watson C.M., Miska K.B., Miller R.D.,
 RA Deane E.M.;
 RT "A survey of type I interferons from a marsupial and monotreme:
 RT implications for the evolution of the type I interferon gene family in
 RT mammals.";
 RL Cytokine 21:105-119 (2003).
 CC -1. SIMILARITY: Belongs to the alpha/beta interferon family.
 DR EMBL: AF522904; AF014979.1; -;
 DR HSP; P01563; IITF.
 DR GO: GO:0005576; C:extracellular; IEA.
 DR GO: GO:0005126; F:hematopoietin/interferon-class (D200-domain...); IEA.
 DR GO: GO:0006952; P:defense response; IEA.
 DR InterPro: IPR009079; 4 helix cytokine.
 DR InterPro: IPR000471; interferon_abd.
 DR Pfam: PF00143; Interferon_1.
 DR ProDom: PD000550; Interferon_abd_1.
 DR SMART: SM00076; IFab1.1.
 KW Antiviral; Cytokine.
 FT NON_TER 1 73
 FT TER 73
 SQ SEQUENCE 73 AA; 8587 MW; 0480E25B26F9ECC CRC64;

Query Match 85.7%; Score 36; DB 2; Length 73;
 Best Local Similarity 87.5%; Pred. No. 15;
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTERKXSP 8
 DB 66 LTERKXSP 73

Search completed: May 19, 2005, 12:55:07
 Job time : 176 secs